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# La Sierra College Bulletin



HOLE MEMORIAL AUDITORIUM

Chloe Adams Sofsky



UNIVERSITY OF ILLINOIS  
LA SIERRA, CALIFORNIA  
JUN 21 1961

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LA SIERRA COLLEGE BULLETIN  
La Sierra, California

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Vol. XL

April 15, 1961

No. 2

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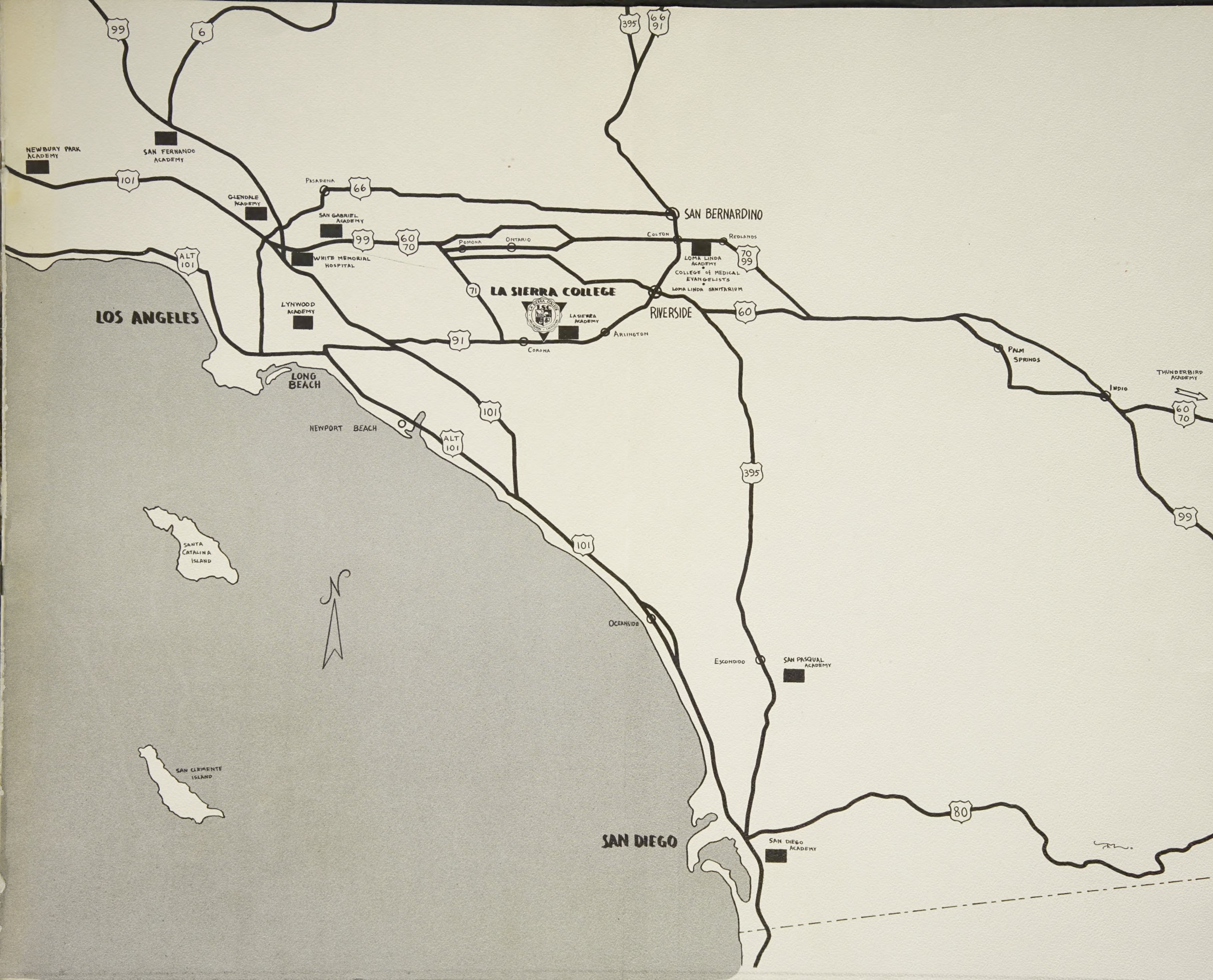


## LA SIERRA

- 1 LIBRARY AND ADMINISTRATION BUILDING
- 2 DINING HALL
- 3 CALKINS HALL
- 4 MATHESON CHAPEL
- 5 MU BETA KAPPA

- 6 SAN FERNANDO HALL
- 7 LA SIERRA HALL
- 8 HOLE MEMORIAL AUDITORIUM
- 9 GLADWYN HALL
- 10 ANGWIN HALL

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## LA SIERRA COLLEGE CAMPUS

1 LIBRARY AND ADMINISTRATION BUILDING  
2 DINING HALL  
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11 PHYSICAL EDUCATION PLANT  
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16 COLLEGE HALL  
17 LAUNDRY  
18 HOME ECONOMICS HOUSE  
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# COLLEGE CAMPUS

PHYSICAL EDUCATION PLANT

ARL AMBS HALL

MAINTENANCE SHOP

COMMUNICATION ARTS BUILDING

COLLEGE PRESS

16 COLLEGE HALL

17 LAUNDRY

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# *Annual Catalog*

1961-1962



LA SIERRA COLLEGE

La Sierra, California



## CORRESPONDENCE INFORMATION

*The post office of La Sierra College is  
La Sierra, California*

Correspondence concerning the general interests of  
the college and faculty appointments should be  
addressed to the president.

Other inquiries should be addressed as  
indicated below:

Catalogs and Bulletins . . .	Admissions Office
Applications for Admission . .	Admissions Office
Evaluation of Credits . . . .	Registrar
Transcript of Records . . . .	Registrar
Self-help Employment . . .	Business Manager
Payment of Bills . . . .	Business Office
Employment . . . .	Business Manager
Alumni Affairs . . . .	Alumni Sponsor
Graduate Placement . . .	Dean of Students
Summer Session . .	Director of Summer Session

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*(Riverside Exchange)*

La Sierra College . . . . .	OV 9-4321
All Departments	
Angwin Hall . . . . .	OV 9-1451
	OV 9-4331
	OV 9-9012
Calkins Hall . . . . .	OV 9-1121
	OV 9-9154
Gladwyn Hall . . . . .	OV 9-4325
	OV 9-9180
MBK Hall . . . . .	OV 9-4327
	OV 9-9101

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1963

# CALENDAR OF EVENTS

1961 - 1962

## FIRST SEMESTER

Freshman Orientation and Registration .....	September 13-15
Non-Freshman Registration .....	September 13-15
Instruction Begins .....	September 18
Founders' Day .....	October 3
Autumn Week of Religious Emphasis .....	October 13-21
Thanksgiving Recess .....	November 22, 1:00 p.m. to November 26, 9:30 p.m.
Christmas Vacation .....	December 19, 1:00 p.m. to January 1, 9:30 p.m.
Final Examinations .....	January 18-24

## SECOND SEMESTER

Registration .....	January 30, 31
Instruction Begins .....	February 1
College Day .....	March 7
Spring Week of Religious Emphasis .....	March 9-17
Spring Recess .....	March 28, 1:00 p.m. to April 3, 9:30 p.m.
Final Examinations .....	May 24-30
Consecration .....	June 1
Baccalaureate .....	June 2
Commencement .....	June 3

## SUMMER SESSION, 1961

Ten-week session .....	June 13 - August 22
Eight-week session .....	June 13 - August 8

# THE COLLEGE

## HISTORY AND STANDING

### HISTORY

On October 3, 1922, La Sierra opened its doors as the academy of the Southeastern California Conference of Seventh-day Adventists. It was the purpose of the founders to provide educational facilities with a denominational stamp and according to the denominational blueprint. These principles call for a rural setting and instruction by Christian teachers in the arts and sciences of living and service. Each student is required to gain some experience in the area of applied arts, and encouragement is given to work experience on the campus. From the beginning the school has been coeducational.

The first college work in teacher training was offered in 1923, and the school acquired the name of La Sierra Academy and Normal School. In 1927 the school was raised to the junior college level, and the name was changed to the Southern California Junior College. In 1939 the Northwest Association of Secondary and Higher Schools accredited the college for fifteen grades of work. Within a few months the California Legislature approved a new charter, changing the name to La Sierra College and authorizing the granting of degrees. Senior college status became effective in 1944.

### ACCREDITATION

La Sierra College is credited as a college of liberal arts by the Western College Association, and by the Northwest Association of Secondary and Higher Schools. It is accredited by the State Department of Education of California to prepare students for elementary education teaching certification.

In addition to membership in the accrediting organization listed above, the college is a member of the Association of Seventh-day Adventist Colleges and Secondary Schools, the American Council on Education, and the Association of American Colleges.

## OBJECTIVES OF THE COLLEGE

La Sierra is a coeducational Christian school. As a liberal arts college it seeks to aid the student in the development of a sound mind in a sound body, to help him to achieve that degree of mental proficiency which will enable him to work efficiently, and to train him to a degree of social competence which will make him a responsible and effective member of society. As a Christian school, the college is concerned with the spiritual welfare of its students, with the development of ideals, of character, and of behavior patterns in harmony with the Biblical specifications of a man of God. The philosophy of education to which the college subscribes is well stated in the words of one of the founders of the Seventh-day Adventist denomination: "Education is but the preparation of the physical, intellectual, and moral powers for the best performance of all the duties of life."

## The College

In harmony with the conception of education described above, the objectives of the college are defined as follows:

1. *Intellectual Objectives.* The college seeks to develop in its students the ability to do independent and creative thinking and to cultivate in them an acquaintance with the basic facts and principles of the major fields of knowledge, together with a more specialized mastery of one of these fields. Students are expected to develop effective expression in written and spoken English, to acquire an attitude of open-minded consideration of controversial questions, and to develop a continuing intellectual curiosity which will extend through their post-college years.

2. *Spiritual Objectives.* As a church-sponsored institution, La Sierra places large emphasis upon the place of religion in the personal lives of the students. It seeks to establish in the students an unswerving allegiance to the principles of the Christian faith, and a sense of personal responsibility to participate in the mission program of the church. Students are encouraged to develop a distinctly Christian philosophy of life as the basis for the solution of both personal and social problems.

3. *Ethical Objectives.* The college endeavors to lead students to the acceptance and practice of those ethical and moral concepts which are approved by the enlightened conscience of mankind, to develop tolerance toward the rights and opinions of others, and to accept the social obligation of serving humanity and striving for its welfare.

4. *Social Objectives.* The social program is designed to guide students in the development of attractive personalities which will find ready acceptance in a sound social order and which lead to enthusiastic participation in its activities. Students are encouraged to develop an understanding and consistent practice of approved social graces and to participate in recreational activities which contribute to a well-balanced personality.

5. *Aesthetic Objectives.* The college seeks to develop in students an acquaintance with the masterpieces in literature and the fine arts, a knowledge of their historical development, an appreciation of the standards and type of beauty represented by them, and proficiency in their creation and presentation.

6. *Civic Objectives.* The college endeavors to give its students an intelligent understanding of the principles of government and to develop in them a willingness to accept the responsibilities and privileges of citizenship, a recognition of the constitutional right of other individuals and social groups, a well-founded understanding of the leading domestic and international principles, and a willingness to operate in bringing about the improvement of the social order.

7. *Physical Objectives.* The physical education program is de-

## The College

signed to give students an intelligent understanding of the principles governing the function and proper care of the body. It seeks also to establish in students a consistent observance of habits and practices which foster maximum physical vitality and health. Emphasis is placed on intelligent recreational use of leisure time and on co-operation with others in the improvement of the physical well-being of society.

8. *Vocational Objectives.* The applied arts program is planned to develop in students an appreciation of the dignity of labor and to give the requisite knowledge and understanding to enable them to choose their vocations intelligently and in harmony with their individual abilities and aptitudes. Also offered is preprofessional training prerequisite to specialized professional and graduate studies.

In harmony with the traditional educational theories and practices of the Seventh-day Adventist denomination, La Sierra College provides in balanced degree pertinent manual work experience for its students. This is in the form of paid hour-time for work in the offices, on the grounds, in the dining hall, in the maintenance departments and other auxiliary enterprises as self-help employment and on-the-job supervised training.

It should be emphasized that the main value of this work is not financial or industrial but vocational and educational. The work superintendents are regarded as key training men on the staff. The students learn or perfect skills; they establish relationships between their studies and the society in which they live; they get broadened viewpoints; they develop dependability and resourcefulness. It is aimed that the graduates will be prepared to go (as many of them do) into mission areas of the world and cope first-hand with the basic problems and materials of existence.

The intent of the management of the college is that the manual work experience of the students shall blend with the Applied Arts requirements (see General Education and Basic Requirements) in helping each student to be a "whole man" with practical awareness of his environment and its primary demands and blessings.

# THE CAMPUS

## LOCATION

La Sierra College is located ten miles southwest of the city of Riverside, fifty miles east of Los Angeles, and twenty miles southwest of Loma Linda. The college has easy access by bus, train, and paved highway to all famous cultural and educational centers of Southern California.

The college buildings are grouped on a gentle slope overlooking the Riverside valley, with its world famous citrus and walnut groves and palm-lined boulevards. During the winter months the snow-clad peaks of the Southern Sierras can be seen rising above the orange groves, a view of rare beauty from the campus.

## BUILDINGS, EQUIPMENT, AND GROUNDS

The college plant consists of fourteen main buildings of similar architecture attractively grouped on the thirty-acre campus, and, in addition, a physical education building, three industrial buildings, and a general store. A quarter of a mile from the campus are the barns, stables, dairy, and creamery of the college farm.

THE ADMINISTRATION BUILDING and J. E. FULTON MEMORIAL LIBRARY (built in 1946) contains the administrative and business offices of the college and the offices and classrooms of the Business Division. The library reading room has a seating capacity of 250 students. A reserve book reading room accommodates 50 students. The library is modern in its equipment and arrangement, including a librarian's office, work rooms, and two floors of fireproof stacks, with a total capacity of 80,000 volumes. The stack rooms are equipped with numerous carrells. A microfilm room is fitted with reading machines and storage cabinets. A collection of phonograph records and a player are available in the library.

LA SIERRA HALL (built in 1923) occupies a central position on the campus. It contains offices and classrooms of the Religion, Social Sciences, Education and Language Divisions.

SAN FERNANDO HALL (built in 1931) contains teachers' offices, classrooms, and laboratories of the Departments of Physics and Mathematics.

PALMER HALL (built in 1952) houses the Biology and Chemistry departments. Built in a U-shape, the structure contains 30,000 square feet of space for classrooms, laboratories, offices, biology museum, and a branch library.

THE HOLE MEMORIAL AUDITORIUM BUILDING (built in 1937) contains the music studios, a large practice hall, and numerous student practice rooms on the upper floor. The heart of the building

## The Campus

is the college chapel, containing the concert organ and seating 750. On the lower floor of this building is the Educational Center, including offices, classrooms, audio-visual laboratory, and another auditorium that seats 300.

AMBS HALL (built in 1949) is the industrial arts building and contains teachers' offices, classrooms, and laboratories for courses in home economics, agriculture, wood trades, and drafting.

THE COMMUNICATION ARTS BUILDING (built in 1959), also located on Campus Drive, contains teachers' offices and class rooms for the speech department. It also houses the studios and control room for station KNFP-FM, and the speech and hearing clinical facilities. The Outdoor Concert Plaza is located at the front of the building.

THE DEMONSTRATION SCHOOL FOR ELEMENTARY EDUCATION (built in 1947), located northeast of the main campus, combines the functions of parochial school for the community and demonstration school for the Department of Elementary Education. There are thirteen classrooms and teachers' offices. Each classroom has space for activities. The construction is mainly of fireproof Latiteel.

MU BETA KAPPA (built in 1922), residence hall for men, is one of the two original buildings on the campus. It contains forty-two student rooms and the office and living quarters of the assistant dean of men.

GLADWYN HALL (built in 1922), residence hall for women, is the other original building, erected the first year of the school. It contains forty-three student rooms and the office and living quarters of the assistant dean of women.

CALKINS HALL (originally built in 1938 with an addition completed in 1960), residence hall for men, contains the office and living quarters for the dean of men, an infirmary, and one hundred and twenty-six rooms.

ANGWIN HALL (originally built in 1940 with an addition completed in 1956) contains a large parlor and lobby, office and living quarters for the dean of women, and eighty-five students rooms. Angwin Hall also houses the Student Health Service.

SOUTH CHAPEL (built in 1951), is a place of worship for dormitory men. In addition to being used for morning and evening worship, the building is always open for private devotion. Of modified Gothic style, the building seats three hundred.

THE CAFETERIA (built in 1941) contains on the main floor a dining room seating four hundred, and a smaller dining room known as the Clubroom. On the lower floor are located the office and rooms of the Art Department, the kitchen, and the bakery.

## The Campus

COLLEGE HALL (built in 1935), on Campus Drive, is the gymnasium and recreation center for the college.

THE INDUSTRIAL BUILDINGS include the La Sierra College Press, the laundry, the college store, and a shop housing wood and metal working equipment and offices for industrial superintendents.

THE COLLEGE FARM consists of some four hundred acres, two-thirds of it is under irrigation. Two deep wells equipped with turbine pumps furnish the water for irrigation and domestic purposes. The college has a dairy herd of about two hundred head, and a modern creamery and ice cream plant.

THE CHURCH (built in 1947), a beautiful house of worship for college and community, is located north of the campus on college property. It has a seating capacity of more than 2,200 in the main auditorium. A large church pipe organ was installed in the church in the spring of 1952.

THE DEMONSTRATION SCHOOL FOR SECONDARY EDUCATION is a modern unit with 18,000 square feet of space. Built in a U-shape, the building contains classrooms, 8 teachers' offices, laboratories for home economics and chemistry, a chapel seating 300, a library, administrative offices, and various work and storage rooms.

HEALTH AND PHYSICAL EDUCATION FACILITIES. During the early part of 1961 the first stage of the Health and Physical Education facilities was completed. A modern locker room with offices, classroom and therapy room constitute the indoor facilities. An adequate area for outdoor activities include a heated pool, gymnastic court, tennis courts, multiple-use area, archery range, and recreation fields. In the near future the final stage will be completed, which will include such indoor facilities as gymnasium, corrective and posture room, classroom, and recreation, health, and fitness laboratories.

# GENERAL INFORMATION FOR STUDENTS

## ADMISSION

### APPLICATION PROCEDURE

La Sierra College follows a policy of selective admission. The chief factors considered in determining eligibility are: (1) character, (2) citizenship reputation, (3) scholarship. Formal application is made on blanks supplied by the college, accompanied by a fee of \$5 and a picture of the applicant. This application should be on file at the college at least thirty days before the student desires to enter. *Under no circumstances should a student come to the college before formal notice of acceptance by the Admissions Committee.*

The applicant should request the registrar of the school last attended to submit directly to the Registrar's Office at La Sierra College an official transcript of record indicating all previous secondary school and college work. It is the responsibility of the applicant to see that such credentials are sent to La Sierra College at the time application is made. Students whose transcripts are, for acceptable reasons, not on file at the time of registration may be given a tentative schedule for a period not to exceed fifteen days, pending receipt of transcript.

All correspondence concerning admissions should be addressed to the Admissions Office, La Sierra College, La Sierra, California.

When a student who plans to live in one of the residence halls receives notice of acceptance, he should send \$20 for a room deposit, as *notice of acceptance does not automatically reserve a room in the school homes*. When the student registers, the room deposit is applied on his entrance charges.

### MEDICAL EXAMINATIONS

All new students and others who have been absent from the campus for two consecutive semesters are required to have completed physical examination forms on file at the college when they come to register. No one may begin registration until the medical blank has been approved.

### ADMISSION TO FRESHMAN STANDING

Graduates of accredited secondary schools may be admitted as regular college students upon presentation of an official transcript certifying completion of 16 units with an average grade no lower than C (where the passing grades are A, B, C, D).

Although the pattern of subjects required for entrance is not rigidly prescribed, it is recommended that the prospective college student give primary emphasis in his high school program to the subjects which are considered especially valuable as preparation for

## General Information

enrollment in a liberal arts college, with particular attention to the prerequisites of the field in which he intends to concentrate.

### ADMISSION BY EXAMINATION

Graduates of unaccredited secondary schools, or graduates who through no fault of their own, are unable to furnish complete credits may qualify for freshman standing by passing such examinations as the Academic Standards Committee shall determine. These examinations should be taken before the student completes his registration.

### PROVISIONAL ADMISSION

Applicants who in the opinion of the Committee on Admissions are qualified to carry college work but who do not fulfill the specified pattern for regular admission may be admitted subject to advisement regarding their proposed curriculum. Entrance deficiencies must be removed or provided for before the close of the first year of college registration.

### ADMISSION TO ADVANCED STANDING

A transfer student wishing advanced standing must request that the school from which he is transferring send directly to the registrar of La Sierra an official transcript of record and a certificate of honorable dismissal from a school of recognized collegiate rank. He must have a grade average of at least C in acceptable liberal arts credits. Advanced standing is provisional for the first semester in residence. During this semester the student must maintain an average grade of at least C in order to achieve full standing.

No portion of any previous college record may be omitted by the student applying at La Sierra College for advanced standing, and any subsequent work taken at a college or university other than La Sierra must likewise be reported to the registrar here by official transcript should the student re-enter La Sierra College.

### ADMISSION TO VETERANS

Veterans' applications are considered on the same basis as those of other students. Since many service units have only a temporary life, it is the responsibility of the veteran to have and present official certificates describing any service-connected education for which college credit is desired. Such credit will be allowed on the basis of recommendations found in the *Guide* of the American Council on Education, or in the recommendations of the California Committee. All requests for the evaluation of service-connected education credits should be addressed to the registrar of the college.

## STUDENT PERSONNEL SERVICE

### ORIENTATION

All new students are required to attend the program of orientation which precedes registration each year. This program is con-

## General Information

ducted to familiarize the student with the traditions, ideals, policies, ethics, and regulations of the college. In return, the college endeavors to become better acquainted with the new students so that its personnel may give wise guidance to each enrollee.

### GUIDANCE

The dean of students administers the guidance program of the college. This program takes into account the student's preparatory school record, his college entrance tests, and his own needs. For purposes of personal counseling relative to choice of vocation, scholarship, discipline, and other individualized interests and problems, each student is invited to select a personal counselor from the faculty. This counselor may or may not be the student's assigned curriculum adviser.

### PLACEMENT

One of the services of the student personnel program of the college is help toward the appointment of its graduates to positions for which they have prepared. This service to seniors and alumni is maintained without fee or commission. The placement office keeps credentials of the graduates and on request transmits copies of the student's record and recommendations to prospective employers.

### RESIDENCE

The greatest profit and enjoyment and the greatest opportunity for full participation in the spiritual, scholastic, and social activities of the college undoubtedly come to the students who live on the campus. Therefore, all unmarried students who do not reside with their parents, close relatives, or legal guardians are expected to live in the residence halls on the campus.

Exceptions are occasionally made for mature and trustworthy students who may, on written request, be given permission to work in approved private homes for their entire room and board.

For information as to room furnishings to be supplied by the student, see the student **HANDBOOK**.

Married students who attend La Sierra find it necessary to locate housing in the village. Since this is a college community, a number of residents in the village rent apartments suitable for married students. The college has only 12 small unfurnished units, and these always have a long waiting list. Our married students, however, do not find it too difficult to find appropriate housing in the village.

### HEALTH SERVICE

It is the purpose of the college to encourage the development of the physical powers as well as the mental and spiritual. The health service is under the direction of a registered resident nurse presiding over well-equipped medical units.

## Campus Organizations and Activities

Believing that diet plays an important role in the preservation of health, the college maintains a cafeteria where wholesome food is served and where an effort is made to educate the students in the selection of balanced meals.

### PHYSICAL EDUCATION PROGRAM

In addition to providing the health service, the college gives attention to physical fitness through recreational opportunities and through courses designed to strengthen and develop the body. These courses include gymnastics and field exercises, swimming for life-saving as well as for health, body-building recreational activities, and instruction in healthful living.

Since so many college students leave school to follow a sedentary profession, one which usually does not continue body-building and may involve considerable strain on the physical and nervous system, an attempt is made to interest each student in some health-building activity which he will carry over into adult life.

## CAMPUS ORGANIZATIONS AND ACTIVITIES

Opportunities are offered for growth and experience which leadership in student organizations affords. All campus clubs are governed by a constitution or set of by-laws which have been approved by the student affairs committee.

THE ASSOCIATED STUDENTS OF LA SIERRA COLLEGE provides for the cultural, recreational, and spiritual activity of the college, and furnishes a point of contact between faculty and students. All students become members of this organization upon registration.

THE COLLEGIATE CHRISTIAN LEAGUE is designed to give opportunity for student expression of Christian ideals. Bands for those interested in medical missionary work, missionary correspondence, literature distribution, and Christian help work are under the direction of this organization.

THE MINISTERIAL FELLOWSHIP is an organization primarily for those men and women who plan to be gospel workers and who wish to begin their service while in college.

THE LA SIERRA COLLEGE CHAPTER OF THE AMERICAN TEMPERANCE SOCIETY is an organization active in combating the liquor and tobacco traffic and in presenting temperance principles to the world. The society is open to everyone interested.

## Campus Organizations and Activities

SIGMA PHI KAPPA is a club whose objectives are to encourage an expression of individual ideas and to promote social development among the women of the college.

MU BETA KAPPA is an organization for the promotion of good will and general culture among the men students.

THE ARTS AND LETTERS GUILD is designed to cultivate a greater appreciation of the finer things of life and to provide opportunity for entertaining study of the literary and graphic fine arts. The guild offers opportunity to those thus interested to gather periodically in an informal way for mutual enjoyment.

THE APPLIED ARTS CLUB is an organization of the students in Home Economics, Agriculture, Building Construction and Engineering. The purpose is to promote interest in the various fields through educational and social activities.

THE LA SIERRA COLLEGE BIOLOGY CLUB aims to further the interests of all students of biology; to unify and promote good fellowship with those who desire personal enrichment through its activities; to engender a love for the wholesomeness of personal contact with the out-of-doors. Membership is open to all biology majors and minors. Others interested may become associate members by invitation.

THE COLLEGE COMMERCIAL CLUB objectives are to foster a spirit of friendliness and cooperation among commercial students, to aid in training for leadership, and to present current developments and problems in business life. The club meetings are divided equally between social and educational activities.

THE FILOMENA CLUB is open to all preclinical nursing students. Its aim is to foster an interest in nursing and to acquaint the student with some of the trends and current problems in her chosen field.

THE INTERNATIONAL RELATIONS CLUB is open to college men and women wishing to participate in study and discussion of the social, religious, and political interrelations of the nations in today's world. The club is a local chapter of an organization sponsored by the Carnegie Endowment for International Peace.

LAMBDA RHO UPSILON endeavors to foster extracurricular interest in the things and aims of chemistry. Membership is open by invitation to students who elect to major in chemistry. Juniors and seniors qualify for active membership, and students below junior standing qualify for associate membership.

LE CERCLE FRANCAIS aims to foster an interest in France and its culture. Although this club is organized primarily for students in the French department, others who are interested in the French language or in French culture are invited to join.

## Publications

DEUTSCHER VEREIN is a club designed to create among the students of German an interest in and understanding of the German people, their culture, and their contribution to the world's heritage in the field of language, literature, music, and science.

THE PHYSICS CLUB has for its purpose the fostering of interest in physics and its applications in all fields of human activity. Membership is limited to physics majors and minors. Others who have a special interest in this field may become associate members by invitation. Facilities of the physics laboratory and shop are made available for project work sponsored by the club.

THE TEACHERS OF TOMORROW organization is a laboratory school for the enrichment of preprofessional experience in educational thought, leadership, and service. The organization provides an opportunity for future teachers to gain a practical knowledge and appreciation of their chosen profession, its purposes, its possibilities, its problems, and its leaders. This club was the first of its kind to be organized within the General Conference Educational Department and the name originated on the La Sierra campus.

THE GUILD STUDENT GROUP of the American Guild of Organists has been authorized at La Sierra College by the national headquarters in New York. Its purpose is to promote good church music and to develop an interest in the work of the American Guild of Organists.

THE COLPORTEUR CLUB promotes interest in colporteur evangelism. All students interested in the aims of this organization are eligible for membership.

THE PHOTOGRAPHY CLUB, with its membership composed of those with some experience and much interest in things photographic, serves the double purpose of providing a hobby activity and making permanent pictorial records of important events of the school year.

THE RADIO CLUB has for its purpose the increasing of knowledge and skill in short wave communication. The club maintains transmitting and receiving equipment for the use of its members.

THE ENGLISH CLUB is for all — whether English majors or minors or not — who are interested in creative writing, literature, or language.

## PUBLICATIONS

THE COLLEGE CRITERION. The college weekly newspaper is written and edited by students and is the official publication of the Associated Student Body.

THE METEOR. The yearbook is also written and edited by the students. Its purpose is to present a picture and story of campus life at La Sierra College.

## Principles of Conduct

LA SIERRA COLLEGE BULLETIN. The BULLETIN is published at stated times during the year, giving information about the college, its departments, plans, and work. The catalog issue, an annual number, shows the organization of the college, course offerings, financial information, board members, faculty, other staff members, and the most recent graduating class.

### ALUMNI ASSOCIATION

The purpose of the La Sierra College Alumni Association is to promote a spirit of fraternity among the alumni and to maintain their interest in the college.

### PRINCIPLES OF CONDUCT

It is the purpose of the college to develop strong men and women with the high standards of scholarship and the self-discipline necessary for Christian leadership. The campus government and discipline, therefore, are founded upon the principle that character building is the highest object of education and that a good name, standing for integrity, honor, and godliness, is the objective alike of the student for himself and of the college for him.

No religious test is applied, but all students are expected to give respect to the Word of God, to attend religious services, and to abide by the regulations of the college as listed in the student handbook (supplied on request or when the student is notified of his acceptance), or as announced by the faculty. The regulations at La Sierra College have developed from the experience of students and teachers. Each rule and traditional practice is a guidepost directing the student to successful and effective campus living, left there by those who have gone before. *Application and enrollment constitute on the part of the student an agreement and a pledge to honor and observe the habits, manners, and regulations prevailing in the college.*

As the college retains to itself complete freedom of judgment in the admission of a student, so also it must be the sole arbiter of the fitness of the student to continue his residence and study in the school. Any student who does not maintain a satisfactory level of scholarship or who, in the judgment of the faculty or its properly authorized committees, is found to be unresponsive or uncooperative in his relation to the objectives of the college, or unfaithful to his pledge, may be deprived of membership without specific charges.

## Financial Information

### FINANCIAL INFORMATION

Without prior notice, the College Board reserves the right to make changes in the rates and fees as published herein. It is contemplated that such changes would be made only in unusual circumstances.

#### TUITION

All laboratory fees, all rentals (typewriter, piano, and organ), are included in the tuition.

Credit Hours	Tuition	Credit Hours	Tuition
1 .....	\$ 30.00	11 .....	307.50
2 .....	60.00	12 .....	330.00
3 .....	90.00	13 .....	337.50
4 .....	120.00	14 .....	345.00
5 .....	150.00	15 .....	352.50
6 .....	180.00	16 .....	360.00
7 .....	210.00	17 .....	382.50
8 .....	240.00	18 .....	405.00
9 .....	262.50	19 .....	427.50
10 .....	285.00		

Summer School rate for 1960: \$28.00 per credit hour.

The above tuition is charged four times each semester as follows: First semester, October 31, November 30, December 31, and January 31; second semester, February 28, March 31 April 30, and May 31. Tuition for summer school is charged at the beginning of each term. Statements are prepared each calendar month and are payable upon presentation and past due after the 25th of the month.

Tuition charges are based upon the number of hours of college credit in the course for which the student has registered, as shown by the records in the office of the registrar and business office. The same tuition is charged whether the course is taken for credit or audit.

#### APPLICATION FEE

A fee of \$5 is required with the application from every new student. Students who have previously registered in the college or graduates of the La Sierra Academy will not be required to pay the application fee. This fee is to pay for the checking of transcripts and recommendations.

## Financial Information

### SEMESTER FEE

GENERAL FEE\* (per semester) ..... \$25.00

\*Includes:

ASLSC Fees ..... 7.50

The fee includes ASLSC membership and one half of the annual subscription price to the student publications. Refunds are made only if the student discontinues all classes within two weeks of registration.

Lyceum\*\* ..... 2.00

This fee provides the student with admission to all artist and lyceum numbers.

Insurance\*\* ..... 4.50

Registration ..... 11.00

\*\*Optional to students taking less than 5 credit hours.

### SPECIAL FEES

	<i>Per Month</i>
Special examination .....	\$ 3.00
Evaluation sheets for non-registrants .....	3.00
Late class change (after first two weeks) .....	1.00
OA English Special Fee .....	20.00
Reading Improvement .....	30.00
Degree* .....	25.00
Diploma — Professional .....	5.00
Late registration .....	5.00
Reregistration Fee .....	3.00
English for Foreign Students — charged on the basis of 2 hours Tuition.	

\*Includes: diploma, cap and gown (without hood), and graduate record examinations.

Students taking music or typing *only* would pay the following rentals:

	<i>Per Month</i>
Typewriter, one period per day .....	\$ 1.50
Music Instruments .....	1.50

Music Rentals:

	<i>Per Semester</i>
Practice Room, one hour a day .....	\$ 5.00
Practice Room, two hours a day .....	8.00
Pipe Organ, Estey, two hours a week .....	14.00
Pipe Organ, Wicks, two hours a week .....	14.00
Hammond Organ, three hours a week .....	10.00

Single practice periods are charged as follows:

Estey Organ .....	\$ .50
Wicks Organ .....	.50
Hammond Organ .....	.35

### PRIVATE MUSIC AND SPEECH LESSONS

The fee for private (half hour) lessons is as follows:

	<i>One Lesson a Week</i>	<i>Two Lessons a Week</i>
College Instructors .....	\$45 per semester	\$81 per semester
Student Teachers .....	\$30 per semester	\$54 per semester
Single lessons are \$4 each.		

## Financial Information

No refunds are made for occasional absence, whether caused by sickness or other reasons. Lessons falling on holidays, field days, or vacations are not made up. Lessons missed through the fault of the instructor will be made up. When the lessons taken in a semester number less than 8, they will be charged for at the single lesson rate of \$4.00. In addition to the private lesson fee there is a regular tuition charge for the amount of credit earned.

### ROOM RENT

Gladwyn Hall and Mu Beta Kappa ..... \$24.00 per month  
Angwin Hall and Calkins Hall ..... \$28.00 - 29.00 per month  
depending on facilities.

Each student planning to live in a residence hall at the college must pay a \$20 room deposit. This deposit will be held in reserve until two weeks after the student has checked out of the hall. *If for any cause the student should be unable to attend school, the request for refund must be received not later than one month before the opening of school.* No refunds are granted during vacation periods.

The above charges are on the basis of two students in a room and include free laundry for all flat work. Laundry in addition to flat work will be charged for at nominal prices. No refund will be made if a student does not avail himself of the laundry services. All of the rooms in the residence halls are equipped with twin beds, twin closets, and hot and cold running water. The corner rooms in Angwin Hall and in Calkins annexes are equipped with full bathroom facilities, and some wings have a private bath between each two rooms.

If a student wishes to room alone, he may be permitted to do so, as long as rooms are available, at an extra charge of \$5.00 a month.

Each student is furnished a key for which he signs when he occupies the room. No key deposit is charged. Unless the room key is returned to the dean and the room left in good order a charge of \$3.00 for non-return of key and \$5.00 for untidy room will be made against the student and deducted from the room deposit.

Students may have a maximum of 200 watts of electricity in their rooms; any excess wattage will be charged extra.

### BOARD

Board is furnished on the cafeteria plan. The meals are served in a beautiful up-to-date dining room, which is equipped with the latest hygienic equipment obtainable.

The minimum charge for dormitory students per month for men is \$28; for women, \$23. This charge is for meals served at the tray-line, and is not to be used for groceries or bulk foods. However, if a student leaves the campus or is sick for more than a week at a time, he will not be charged the full amount of the minimum board.

## **Financial Information**

Snack bar tickets may be purchased from the cashier in the business office to be charged to the board bill and applied toward the minimum board.

### **GUARANTEE DEPOSIT**

All students are required to pay the cashier their guarantee deposit before beginning registration.

The guarantee deposit is \$200.00 for resident (boarding) students and \$100.00 for non-boarding, or day students.

The guarantee deposit will be credited to the account at the end of the school year, or whenever the student withdraws.

### **BREAKAGE TICKETS AND FIELD TRIP CHARGES**

Each student who enrolls in one or more chemistry courses is required, to purchase, at the time of enrollment, one breakage ticket, the price of which is \$10.00; \$5.00 breakage tickets are required in biology courses using breakable equipment. Should the ticket be consumed before the end of the course, a new one is to be purchased. The unused portion of a ticket is credited back to the student's account at the end of the course. The breakage ticket is drawn upon to pay for equipment which the student damages or destroys in his work. In certain biology classes which require extensive field work, a charge of \$5.00 to \$10.00 will be made for transportation. Such charges are indicated in the description of courses.

### **MEDICAL CARE**

The Health Service fee which is included in the tuition applies toward the expenses of maintaining a nursing staff at the college. It does not include doctor's fees, special prescriptions, prolonged nursing care, or physical therapy treatments.

If a student finds it necessary to receive care in the infirmary, a charge of \$1.00 per day for its use will be made.

### **ACCIDENT INSURANCE**

Student accident insurance is carried by the college under a blanket policy. The cost of this insurance is \$4.50 per semester, which is included in the general fee.

Accident Insurance is optional for students carrying less than five hours; however, such a student may obtain insurance by paying \$4.50 per semester.

Since there is no general fee charged during the summer, an insurance fee of \$3.00 will be charged each student.

In addition to the required accident insurance, sickness insurance is also available to the student on an optional basis. The cost is \$11.00 per calendar year payable in advance.

## Financial Information

### AUTOMOBILE REGISTRATION, AND PARKING FEE

All students (village and resident) who own or have the use of an automobile are required to register it with the College. Failure to register a motor vehicle when used by a student will carry an initial penalty of \$10.00.

Dormitory students who operate automobiles will be charged \$7.50 per semester to cover parking and supervision.

Non-dormitory students will be charged \$1.50 per semester for registration and parking.

### COLLEGE STORE

Books, school supplies, and stationery may be secured at the College Store. *All purchases are on a cash basis. A deposit of \$50 per semester on the student's account will be required of those who wish to purchase books and supplies on a bookstore requisition. Without this deposit bookstore requisitions will not be issued.*

### TRANSCRIPTS OF CREDIT

One complete transcript of credits will be made upon request, free of charge. A fee of \$1.00 will be charged for each additional transcript.

*Diplomas, transcripts of credits, and semester grades will not be issued until accounts with the college are fully paid.*

### PAYMENTS

Money for the payment of accounts should be sent directly to the business office of the College and should be made payable to La Sierra College.

Money sent to the student for personal use should be made payable to the student and not to the College.

*Money for a student's personal use and for school expenses should not be combined in one check.*

### REBATES

Tuition rebates for all classes dropped are effective at the end of the week in which the drop voucher, properly signed, is filed with the registrar. Rebates are not retroactive.

The college reserves the right to withhold payment of any balance payable to a student for a reasonable period of time after he leaves school in order to be certain that all charges and credits have been recorded on his account.

### CASH ON ACCOUNT

*No student is allowed to draw cash on his account unless the business office has a written authorization from the person responsible for the account.*

# Scholarships and Student Aid

## THE STUDENT BANK

Provision is made for students to deposit in the Student Bank in the business office of the college such money as they may wish to have on hand for books, school supplies, and personal expenses. This money the student may withdraw at any time without question, or as parent or guardian may designate, by signing the passbook.

## LABOR CREDIT

It is especially stipulated that labor given to students, including labor in the student center, is not paid for in cash, but all earnings are to be credited to the account of the student for tuition, fees, and resident expenses. Labor credits cannot be transferred to any person without written permission of the person having the credit. Students accepting employment in any department agree to the provisions as stated above.

The student who wishes to have the tithe on his labor credits paid directly to the Southeastern California Conference, may arrange to have this done by signing an authorization form in the business office.

## SCHOLARSHIPS AND STUDENT AID

For those worthy and capable students who cannot obtain a college education without financial assistance, the College endeavors to provide scholarships, tuition awards, and loans to supplement individual and family income. Funds for this purpose are donated largely by friends and supporters of La Sierra College.

In making awards, financial need is always taken into consideration. Consequently, it is expected that students whose expenses can be met by parents or from other sources will not apply for scholarships. Academic excellence, citizenship and commitment to Christian endeavor represent other bases for selection of recipients.

Applications for financial aid should be addressed to the Committee on Scholarships, La Sierra College, La Sierra, California. A student must be accepted for admission before his application for aid can be considered.

## GENERAL FUNDS

Currently the following funds are available to be awarded by committee action as applications are processed:

Anonymous Scholarship Fund .....	\$4000.00
Lydia Bowen Worthy Student Fund .....	3000.00
General Funds .....	6000.00

## AWARDS CHAPEL

The final chapel period of each school year has been traditionally devoted to the making of a number of surprise awards arising from

## Scholarships and Student Aid

special scholarships and funds available. The following gifts and special scholarships listed below are to be awarded at the close of the current school year:

Farmer's Insurance .....	\$ 250.00
Gulf Oil Corporation .....	264.00
Household Finance Company of Chicago .....	50.00
La Sierra College Alumni .....	2000.00
La Sierra College Faculty .....	300.00
Santa Fe .....	1000.00
	<hr/>
	3864.00

### SPECIAL SCHOLARSHIPS

*The Howard O. Welty Loyal Daughter Memorial Scholarships:* two awards of \$300 each made annually to a sophomore, junior or senior woman whose qualifications and need have been established by the Scholarship Committee according to stated provisions of the award. This scholarship is made by selection and not upon application.

*The Idylwood Scholarship for Future Teachers:* an annual award of \$300.00 to assist a deserving student who plans to follow the teaching profession. This scholarship is awarded upon application only.

*The Herbert Judson Memorial Scholarship:* income on a \$5,000.00 endowment fund is available to qualified agriculture students.

*The Zoella N. Brady Memorial Scholarships:* two \$350.00 scholarships annually for qualified worthy students.

### SECONDARY SENIOR AWARDS

A special fund has been established from which awards are made each year to selected graduates of Seventh-day Adventist secondary schools located in the territory of the College. Selection is based upon scholarship and citizenship records at the secondary level. Three \$200 awards are available to each secondary graduating class, one to be given to the valedictorian with the remaining two selected by the secondary school faculty.

### LOANS

The National Defense Act Loan Funds are available on application to the Committee on Scholarships in the same manner as other funds. Other loan funds are also available.

### MILITARY VETERANS

Veterans wishing information as to the benefits to which they are entitled and the procedure for obtaining these benefits may apply to the nearest office of the Veterans Administration. Veterans who were citizens of California at the time of induction may obtain additional aid from the California Veterans Welfare Board. Application forms may be obtained from the board office in Sacramento.

## Scholarships and Student Aid

La Sierra College has been authorized to admit veterans of the Korean War under the Vocational Rehabilitation Program, Public Law 550, 82nd Congress, 1952.

Veterans wishing to attend school under the provisions of Public Law 550 should make application to the Veterans Administration. The Veterans Administration will send to the college a "Certificate for Education and Training" (Form 7-1993). This form must be received by the college before the veteran will be authorized to receive his benefits. Therefore, to avoid delay, the veteran should make application far enough in advance, enabling the Veterans Administration to process his application before the school term begins. Veterans under Public Law 550 must pay the regular guarantee deposit at the time of registration and all expenses incurred thereafter because the Veterans Administration sends the benefits to the veterans and not directly to the school.

Veterans planning for training under the State of California Educational Institute plan should evidence their intention by presenting an "Authorization Certificate" from the State of California. Veterans who cannot furnish a certificate when registering must pay the regular guarantee deposit.

All veterans should plan to have sufficient funds to cover at least two months' living expenses when applying for veterans benefits. Personal accounts for board, room, and laundry must be paid each month as presented. The college cannot carry personal accounts in anticipation of governmental subsidies.

### COLPORTEURS

Students who wish to sell Seventh-day Adventist literature will be awarded special scholarships which will be arranged between the publishers, the conferences, and the college.

## ACADEMIC INFORMATION

### ACADEMIC REGULATIONS AND POLICIES

#### REGISTRATION

An orientation program for the freshmen is provided at the opening of the year. The purpose of this program is to introduce the freshman to school life and to help him plan his program. Attendance of all freshman students is required, the only exception being those students who have attended La Sierra College a year but who do not have sufficient credits for sophomore standing. During this period certain required tests are administered to the freshmen, the results of which aid the advisers in their work of counseling and registering the students.

Other students are expected to be present for the regular registration days, which immediately follow freshman registration. There is a \$5.00 fee for registration completed after regularly announced registration days.

Regular registration is permitted for the first two weeks of the winter semester and for the first three days of the summer sessions. Students wishing to enter later must meet the following stipulations: (1) secure permission from the dean of the college; (2) pay the late registration fee as indicated above; (3) submit to a reduction of class load by one credit hour for each week they are late, including the first two; (4) make up the work missed in the classes to which they are admitted. Such limited registration is allowable only in instances where the student has been hindered by genuinely emergency conditions and then only in classes where making up the missed work is feasible on tutorial or conference basis with appropriate written evidence of required achievement. Counting from the opening of the semester, no student will be accepted for regular class work after four weeks of the semester or three days of the summer sessions.

#### ENTRANCE APTITUDE AND PLACEMENT TESTS

Freshman and other students new to La Sierra College for whom aptitude and placement scores are not available are required to take tests that provide such scores before they register. The tests are to be taken on designated days. The college reserves the right to control the scholastic program of the student on the strength of the test returns, as checked against his scholastic record.

All lower division students entering La Sierra College for the first time and all other students who do not have credit in Freshman English from some other college are required to take the English Placement Test. The purpose of this examination is to test the student's ability to write the English language acceptably, demonstrating a knowledge of spelling, grammar, punctuation, and sentence structure. Students who are low on the English Placement Test will

## Academic Regulations and Policies

be required to enroll in course English OA, Functional Grammar and Language Elements, and to pass a satisfactory examination in the subject before being eligible for Freshman English 1-2.

### CLASS LOAD CONTROL

No student will be permitted to take more than 16 semester hours and one-half hour of physical education except by petition. Permission may be granted for 17 semester hours and one-half hour of physical education only if the student has maintained during the preceding semester of residence a minimum grade point average of 2.5; or 18 semester hours and one-half hour of physical education with a minimum grade point average of 3.0. The student will be asked to lessen his class load during the semester if he does not maintain a grade point average of at least 2.0. Under no circumstances does the college permit a student to carry more than 18 semester hours and one-half hour of physical education.

Any student working at self-help employment as much as twenty hours per week doubtless will need to curtail his normal study list. A student who feels that he must work in excess of sixteen hours per week should consult the dean of students and other appropriate registration advisers, who will examine the student's grade record and learning competence before deciding upon the permissible study load of the student.

### SCHOLARSHIP PROBATION

A student is placed on scholarship probation whenever his grade point average falls below 2.0. This means that his scholastic schedule and habits are subject to review by his counsellor, the dean of students, and the dean of the college. He may be called upon to reduce his class-hour load, curtail extracurricular activities, improve study methods, or be advised to change his curriculum, or be put under the restrictions that accompany scholastic probation. A student on scholarship probation for two consecutive semesters may be notified, depending upon the evidence of improvement as shown in his most recent semester and degree of his delinquency, that his registration at this college is not profitable to him. A student who has been dropped from registration because of this policy may be readmitted only when there is evidence that the cause of the poor scholarship has been removed. By advisement and administration, the college uses every means at its command to help students do their best work and realize their ambitions.

### PROGRAM CHANGES

A student already enrolled may change his program of studies for sound academic reasons during the first week of a regular semester with the consent of the instructor and his adviser. Courses may be dropped on the same basis, although a \$1.00 charge is made for

## Academic Regulations and Policies

a change after the first two weeks. During the first six weeks of a semester, courses may be dropped without academic penalty (W). Courses dropped after the sixth week and before the end of the tenth week will be recorded as failures (Wf) unless the student is passing, in which case a W will be recorded. Following the tenth week all courses dropped will be recorded as failures (Wf). Exceptions may be made when a student is forced to drop because of circumstances beyond his control.

### STUDIES FOR HONORS

The Honors Program at La Sierra College is designed to encourage the more competent and diligent students to put their full powers under stress and then to experience the consequent satisfactions of expanding independent scholarship.

An Honors Committee is appointed by the faculty to maintain standards and supervise the Honors Program at this institution. Application forms for admission to the Honors Program may be obtained at the Dean's Office.

The students who elect to study for honors work on assigned projects and individual explorations. They have conferences with their teachers on their research findings and general achievement in areas extended far beyond the regular content of classes in which they already have earned or are earning grades of B or better.

### ELIGIBILITY

The program is restricted to those who have B or better in (a) the major concentration, (b) overall grade points on the "solids," and (c) the given classes in which they propose to extend their knowledge.

Each department that finds it feasible to offer honors opportunities indicates by an introductory paragraph preceding the course descriptions of the department those classes in which a student may earn extra semester hours of honors credit. These are designated by an H following the course number and by a similar symbol on the registrar's books. A minimum grade of B is necessary if any such credit is to be computed as "honors" credit.

### LEVELS AND REQUIREMENTS

Many qualified students will decide to take some of the "H" courses because of their interest in a certain area of knowledge and for the incidental stimulus of independent discovery. Those who take enough such courses in their own major department, during two required years of residence in the upper division at La Sierra, may qualify for one of two distinctions:

- (a) Honors
- (b) Highest Honors

## **Academic Regulations and Policies**

The "Honors" designation calls for the general standing as indicated above and six hours of H credit.

"Highest Honors" calls for (a) eight hours of H credit with a grade point average of 3.5, (b) the major department grade point average of 3.5, (c) an overall grade point average on "solids" of 3.5, and (d) high distinction in an oral and/or written examination in the major field.

No student is eligible for either of the honors designations if his citizenship record or conduct code is out of harmony with La Sierra College principles.

### **EXTENSION EDUCATION**

Through its extension program La Sierra College offers two types of educational opportunity: (1) regular offerings for those who are pursuing degree programs, and (2) courses designed for those in the constituency who are interested in occupational improvement and cultural enrichment. Further information may be obtained from the Coordinator of Extension.

### **PRIVATE WORK, CORRESPONDENCE, AND EXTENSION CREDIT**

No student may take private school work or extension or correspondence courses while enrolled at the college without securing permission in advance from the registrar's office. Twelve lower division hours are the permissible maximum for such credit. Correspondence credit does not apply on the major or minor. Credits earned by correspondence after failure in the same course at La Sierra College will be honored only after the successful passing of a comprehensive examination over the course given by the appropriate instructor in the college. Credits out of harmony with these regulations, including other unauthorized course work, will not be honored by the college. Tutoring service is arranged by the staff with the consent of the Academic Standards Committee.

Credit for correspondence work which the student intends to apply toward graduation requirements must be in the hands of the registrar at La Sierra when the student begins the final semester of his senior year.

### **WAIVER EXAMINATIONS**

Some course requirements may be waived providing the student demonstrates proficiency by means of a validating examination. Permission for waiver examinations is granted by the Academic Standards Committee upon written request. Such examinations must be taken on dates scheduled in the Activities Calendar. In the case of seniors all waiver examinations must be satisfactorily completed before the final semester of residence.

## **Academic Regulations and Policies**

### **TRANSFER CREDITS**

Credits from schools outside the United States and its dependencies will be sent to the United States Office of Education for evaluation.

Students with as many as 70 semester hours credit from junior and/or senior college may not submit further credit from a junior college to apply toward the 128 hours required for college graduation.

A student transferring credits from another institution must earn a C average computed separately on work taken at La Sierra College in order to qualify for graduation or certification.

Credits earned at another institution will not be issued as transfer credits accepted by La Sierra College until the student has completed a minimum of one year in successful residence at La Sierra.

### **SPECIAL EXAMINATIONS**

Under unavoidable circumstances, such as the illness of the student, missed examinations may be made up after advance arrangements have been made with the instructor and a permit secured from the dean's office. For this permit a \$3 service fee must be receipted by the business office.

### **CLASS AND CHAPEL ATTENDANCE**

Regular attendance at all class and chapel appointments is required. The Student Handbook should be consulted for details respecting privileges and penalties.

### **THE SEMESTER HOUR**

The semester hour is the unit of credit earned by attending one fifty-minute class period a week for one semester of eighteen weeks and satisfactorily meeting the course requirements, credit for each such hour being based on the standard of two hours of preparation for each class period. Three clock hours of laboratory each week, or three fifty-minute periods each week in classes not requiring outside preparation, continued for one semester, are valued at one semester hour of credit.

### **THE GRADING SYSTEM**

La Sierra College uses the four-point system in computing grade point totals. According to this system, grade points are assigned as follows: A, four points; B, three points; C, two points; D, one point; F, no points. No grade below C is counted toward majors or minors; and a C-average is required for graduation, for advancement from lower to upper division, and for various certification levels.

Grade reports and scholastic credit are given in letter grades, as follows:

## Classification of Students

Grade	Grade Points per Semester Hour
A (excellent) .....	4
B (above average) .....	3
C (average) .....	2
D (inferior) .....	1
E (warning) (This is given on mid-semester report only.)	
F (failure) .....	0
(Student must drop the course if this is a mid-semester grade.)	
Wf (withdrew failing) .....	0
I (incomplete) (Will be recorded as failure if not removed within nine weeks.)	
W (withdrew, 0 hours attempted)	

### SCHOLARSHIP REPORTS

Reports showing progress grades are issued by the registrar after the mid-semester examinations. Semester grades are issued by the registrar and recorded for permanent reference.

The midsemester grades inform the student as to the level of his achievement up to the time shown. If the report indicates that adjustments are necessary in class load, study habits, self-help labor, extracurricular activities or scholastic motivation, delay beyond this point is likely to be critically final. An E, for instance, means that the teacher judges the student capable of passing the course if he improves according to his potential; if he maintains his E performance, an F for the semester is inevitable.

## CLASSIFICATION OF STUDENTS

Students at La Sierra College are designated in academic rank according to this pattern:

### LOWER DIVISION

*Freshmen:* those having completed less than 28 semester hours.

*Sophomores:* those who have completed a minimum of 28 applicable hours and have a minimum grade average of C.

### UPPER DIVISION

*Juniors:* those who have completed at least 60 applicable hours and have a minimum grade average of C.

*Seniors:* those who lack no more than 36 hours of qualifying for graduation and have a minimum grade average of C. Students in this category may (and normally should) file application with the registrar for degree candidacy.

A student classified as a junior at the beginning of a year may be reclassified as a senior in the second semester provided he has a reasonable possibility and intention of completing graduation requirements in the next summer session.

## Degrees and Certificates

A sophomore who has completed 50 to 59 hours and has a satisfactory grade record, may be allowed to take a limited program of upper division work provided he has all lower division specified hours completed or in current registration.

*College seniors will not be given credit for freshman courses taken in the senior year even though they are required. All such courses must be taken before the student reaches senior standing.*

### GRADUATE DIVISION

Students who already hold a Bachelor's degree from accredited institutions may be granted either regular or unclassified status as graduate students. Details of this program are described under "Graduate Study" further on in this section of the BULLETIN.

### SPECIAL STUDENTS

Students who are beyond the usual age of degree candidates may be permitted to enroll, with the permission of the dean of the college and the instructors concerned, in certain undergraduate classes for which they have adequate preparation. This arrangement is designed to accommodate mature adults who qualify for college entrance but have some immediate educational objective not related to a degree program. Students who wish to take only a limited amount of music may be classified as special students.

## DEGREES AND CERTIFICATES

La Sierra College holds membership in the Western College Association, the Northwest Association of Secondary and Higher Schools, and is chartered by the State of California to bestow appropriate literary honors upon its graduates, including the baccalaureate degrees. The college confers the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, and Master of Science.

The BACHELOR OF ARTS degree is conferred upon students who have fulfilled the general and basic requirements for graduation with a major field of concentration and the prescribed cognates.

Students may select a major from the following:

Accounting	History
Art	Home Economics
Biblical Languages	Mathematics
Biology	Music
Business Administration	Physics
Chemistry	Psychology
Elementary Teacher Education	Religion
English	Science-Mathematics Teaching
French	Secretarial Science
German	Social Science
Health and Physical Education	Speech
	Theology

## Undergraduate Study

THE BACHELOR OF SCIENCE degree is conferred upon a student who completes in a satisfactory manner one of the professional curriculums appearing in this BULLETIN or approved by the Academic Policies Committee. Curriculums are in the following fields:

Accounting	Health and Physical
Agriculture	Education
Biology	Home Economics
Building Construction	Physics
Business Administration	Secretarial Science
Chemistry	
Elementary Teacher Education	

Minors may be secured in the same fields as the majors (except in Theology) and in addition may be secured in the following fields:

Secondary Education	Journalism
Spanish	Sociology

The BACHELOR OF MUSIC EDUCATION degree is offered for those who wish to teach in the fields of music. Requirements of the curriculum are listed under Music.

The college also grants certificates to students completing junior college preprofessional and terminal curriculums.

## UNDERGRADUATE STUDY

To prepare for a bachelor's degree, the student must meet specified standards as to college entrance and amount, grade, and distribution of work in the particulars indicated below.

### ENTRANCE REQUIREMENTS

Graduates of accredited secondary schools may be admitted to curriculums leading to the degrees of Bachelor of Arts, Bachelor of Science, or Bachelor of Music Education upon presentation of an official transcript certifying completion of a minimum of 16 units with at least a C average scholarship record distributed as follows:

- a. English: 3 units
- b. At least 1 unit from each of the following fields:
  - (1) Mathematics
  - (2) Natural Science
  - (3) Social Science
- c. Additional units to make a minimum of two units in each of two fields selected from the following:
  - (1) Social Science
  - (2) Foreign Language
  - (3) Mathematics
  - (4) Natural Science
- d. Not more than 4 units of the 16 may be in any one field.

## Undergraduate Study

### GENERAL EDUCATION AND BASIC REQUIREMENTS

"General Education," coming mainly during the two first years, is recognized as basic in degree requirements at La Sierra College. The courses are so organized as to give the student a general grasp of those fields of knowledge regarded as significant in liberal arts education. The curriculum prescribes most of these courses in the freshman and sophomore years in order to provide an enrichment of the student's intellectual equipment and to give him balance and orientation for his major concentration and other upper division classes. Room is left in the first two years for lower division requirements for the majors. The prerequisites for a few majors substitute for certain General Education courses, as indicated in the curriculums outlined for the departments concerned. Part of the General Education requirements may be elected from upper division literature and fine arts.

The basic requirements, including General Education, are summarized below for the four-year undergraduate program:

*Applied Arts:* 3 hours. The student will select from courses approved by the Applied Arts Division.

*English:* 12 hours. In addition to Freshman English (6 hours) the student must include at least 3 hours of literature and may include up to 3 hours of speech.

*Fine Arts:* 3 hours. Either of the following courses fulfills this requirement:

Art 57. Introduction to Visual Arts (3 hours)

Music 58. Introduction to Music (3 hours)

Substitutions, on the basis of equivalent information, may be made only on recommendation of the chairman of the division.

*Health and Physical Education:* 2-4 hours. Four activity courses (2 hours) are required. Health Principles (2 hours) is also required. However, if a student can show a satisfactory course in health principles on his high school transcript, the course in Health Principles (Health and Physical Education 59) will not be required.

*History:* 9-12 hours. Three hours of History 51, 52, History of Western Civilization (6 hours)), and History 91, 92, American History and Institutions (6 hours), or their equivalents are required of all candidates for the bachelor's degree. Students failing to present a complete unit of World History from high school must take 6 hours of History of Western Civilization. Variations from American History and Institutions may be made by any of the following patterns:

I. History 91, 56 and 112 (or Political Science 58).

II. History 92, 55, and any other two hours of United States history.

III. History 55, 56, and Political Science 57, 58.

*Modern Language:* 6-14 hours. Required of all candidates for the B.A. degree and, in some instances, for the B.S. degree. Upon the completion of the intermediate course (6 hours) the student must elect to take either a qualifying examination or complete an additional 2 hours of course work. Beginning language (6 hours) is required only when the student does not present two secondary units of credit in the same language as that selected at the college level.

## Undergraduate Study

*Religion:* 12-14 hours. Students presenting less than two units of Secondary religion credit are required to take 14 hours. Course 3,4 (Foundations of Christianity) is required of Freshmen with less than two units of secondary credit. In planning their programs students are advised to include four hours Prophetic Interpretation (71,72), Daniel (105) and Revelation (106), or Biblical Theology (151,152). At least four hours must be in the upper division and may include one of the following courses in religious history: 101, 118, 134, or 141. Transfer students ordinarily take a minimum of four hours of religion for each year of attendance at La Sierra College (up to a total of 12). All freshmen enrolling for 10 or more hours of course work in a given semester are required to register for a course in religion.

*Science:* 8 hours. The following general education courses fulfill this requirement:

Physics 63. Natural Science: Physical (4 hours)

Biology 64. Natural Science: Biological (4 hours)

Substitutions are allowed for those who need an equivalent number of hours in lower division chemistry, physics, biology as prerequisite to their major concentration.

*Social Science:* 3 hours. This requirement may be met by a basic course in either psychology or sociology. Those with credit in economics or geography may waive this requirement unless specific course prerequisites require it.

### OVER-ALL REQUIREMENTS

1. The completion of the entrance requirements.
2. The completion of a total of 128 semester credit hours, of which at least 40 must be in the upper division.
3. Grade points equal to double the total number of credit hours, that is, a minimum over-all average of C, and with a minimum C-average computed separately for the credits earned at La Sierra College.
4. Satisfaction of the minimum residence requirements:
  - a. The candidate for a degree must attend La Sierra College for two semesters or for 36 weeks in summer sessions or in combination with one semester and summer sessions, and must earn a minimum total credit of 24 hours.
  - b. At least 24 of the last 30 hours must be earned at La Sierra College.
  - c. At least 8 hours in the major field and 4 hours in the minor field (if a minor is to be designated) must be earned at La Sierra College.
5. A major concentration with prescribed cognates as indicated for the particular major elected by the student. This major represents a field of emphasis for the upper division and should be selected not later than the end of the sophomore year. The department representing the student's interest should be consulted for the program of studies designed for the major.

## Undergraduate Study

Minors are outlined for those who need them for teaching credentials or for other reasons. *No grade below C may be counted on a major or a minor.*

6. Satisfactory performance on the Graduate Record Examinations. Information regarding these may be obtained at the Dean's Office.
7. Approval of the candidate for a degree by the faculty as to character and citizenship, in addition to scholarship.
8. Completion of the General Education and other basic requirements of the Bachelor's degree. (See above.)

### BACHELOR OF SCIENCE DEGREE

Requirements for the Bachelor of Science degree are the same as those for the Bachelor of Arts degree except that fine arts and (in other than science curriculums) foreign language are not required.

### BACHELOR OF MUSIC EDUCATION DEGREE

See Music for requirements of this degree.

### BULLETIN OF GRADUATION

A student may be graduated, provided he does not break residence by as much as continuous calendar year, under one of these bulletins:

- a. The bulletin he enters under
- b. The bulletin of his junior year
- c. The bulletin of his senior year

If a student breaks residence by as much as a continuous 12-months year, he then may not be graduated under the bulletin of any year previous to his re-entry.

*The responsibility for fulfilling the graduation requirements rests primarily with the candidate for a degree.*

## GRADUATE STUDY

The Graduate Study program is designed to prepare students, qualified academically and personally, for teaching and other professional careers in Education. Graduate offerings lead to Master of Science degrees in Elementary and Secondary Education and allow the student to concentrate either in professional areas or in one or more teaching fields. The program also permits graduate students to qualify for certification with the Department of Education of the General Conference of Seventh-day Adventists, as well as for general California State Credentials. Course work taken to meet certification requirements may often be applied toward a degree, making it possible to progress toward both objectives simultaneously.

## Graduate Study

Graduate study is administered and directed by the Graduate Studies Committee. Although degrees are offered only through the Department of Education, a number of graduate courses are offered in teaching fields by other departments of the college.

As a convenience to students already engaged in teaching professions, a concentration of courses in graduate fields are offered during summer sessions and at afternoons and evening hours during regular terms.

### ADMISSION TO GRADUATE STANDING

Students seeking admission at the graduate level are subject to the general regulations of the college as well as to the specific requirements of the graduate program. In addition to the regular application form, the student will also file application for graduate standing. Forms for both applications may be secured from the Secretary of Admissions.

Qualifications for graduate standing are outlined as follows: a Bachelor's degree from an accredited college or the equivalent; above average performance in previous academic work; sound objectives for graduate work and satisfactory performance on the Miller Analogies Test, the Cooperative English Test, and a scholastic aptitude test. Instructions relative to the arrangements for taking these tests appear later in this section.

La Sierra College seniors with only limited requirements to complete during their last semester may, with the approval of the Graduate Studies Committee, take some course work to be applied as graduate credit after the baccalaureate degree has been conferred.

When a student is admitted to La Sierra College for graduate work he will receive either regular, or unclassified status.

*Regular.* This classification is granted to those who present an undergraduate GPA of at least 2.5 overall, and also in their major field. They must present adequate undergraduate background for the proposed graduate major. Regular standing is necessary for those working toward a degree, and highly desirable for those working toward a credential.

*Unclassified.* Those applicants presenting inadequate undergraduate preparation or whose GPA is less than that required for regular standing may receive unclassified graduate status. This classification also serves individuals who wish to do graduate work but who have not declared or selected professional objectives. An unclassified student may work toward a credential or certification. Credit earned as an unclassified student, however, is not applicable toward a degree until regular standing has been achieved, and then only when academic performance has been sufficiently high.

## Graduate Study

Students seeking admission to the graduate program at La Sierra College should follow carefully the steps outlined below:

1. Formal application to the College and to graduate standing at least one month prior to the beginning of the semester for which admission is sought. An application fee of \$10.00 is charged to cover processing and evaluation of transcripts.
2. The applicant must take the responsibility to have official transcripts, covering all previously taken college and graduate work, forwarded directly from the registrars of institutions previously attended to the registrar of La Sierra College.
3. The results of entrance examinations must be in the hands of the Graduate Studies Committee before the applicant can be classified as a graduate student. Arrangements for taking these tests may be made by writing the Secretary of Admissions.
4. The Chairman of the Graduate Studies Committee will appoint three faculty members to act as a committee on studies for the student granted regular standing. The chairman of this committee will serve as the student's adviser.

### ADVANCEMENT TO CANDIDACY

*Admission to regular standing in the graduate program is not equivalent to admission to candidacy for a degree.* Application for advancement to candidacy is a separate step, and must be made directly to the Graduate Studies Committee at the time advised by the student's committee on studies. Application forms for advancement to candidacy may be secured from the Chairman of the student's committee on studies or from the Chairman of the Graduate Studies Committee.

Advancement to candidacy is based upon the following fulfillments:

1. Application for advancement to candidacy is normally not made until at least 12 applicable semester hours of the student's graduate program have been satisfactorily completed. This must include at least 4 hours of 200 numbered courses. It is also expected that at least 12 semester hours of the program will remain to be completed after advancement to candidacy has been granted.
2. Approval of thesis or project outline by the student's committee on studies.
3. Maintenance of a B average for all graduate work taken while classified in regular standing.
4. Satisfactory performance on the Graduate Board Examination Aptitude Test and Advanced Tests in Education and teaching field(s). Arrangements for these tests must be made well in advance inasmuch

## Graduate Study

as they are given only at specified times and at authorized centers. La Sierra College arranges for a center on its campus when the demand merits it. Other centers in the Los Angeles area are sometimes more convenient. In the event that an advanced test of the GRE is not available for the selected teaching field, the La Sierra College department involved will prepare a qualifying test.

### GENERAL REQUIREMENTS FOR MASTER'S DEGREE IN EDUCATION

1. A graduate student must carry full course work for at least one summer or take the equivalent number of semester hours during a regular school year.
2. A degree may not be earned in less than one academic year or its equivalent in summer sessions.
3. The maximum credit load for any given semester is fifteen semester hours. During summers the credit load must not average more than 1 semester hour per week.
4. An average of B is required in all graduate work. Course work in which the grade earned is less than C does not apply toward the degree.
5. A maximum of 6 applicable semester hours may be transferred at the graduate level from accredited institutions if the courses were taken five years or less prior to commencing the degree program.
6. A graduate student must take at least 12 semester hours in 200 numbered courses. Remaining course work may be taken in 100 numbered courses if approved by the department offering these courses and also by the student's committee on studies.
7. A minimum of 18 semester hours are required in the area of specialization, at least 9 of which must be taken in 200 numbered courses.
8. Final examinations may be oral, written, or both, depending on the requirements of the particular degree sought. These examinations must be taken not later than 1 month prior to the anticipated graduation.
9. A working knowledge of statistics is required of all candidates for degrees. This requirement may be met by passing a waiver examination in the subject. Credit earned by a course in statistics may apply as elective credit.
10. A minimum of two semester hours credit is required in methods and materials of research.

## Graduate Study

11. A minimum of 4 semester hours credit in directed teaching. This requirement may be met by credit earned while the student was an undergraduate, or by presenting evidence of at least 1 year of successful teaching experience. Credit earned in student teaching at the graduate level may be applied toward the degree.

12. Requirements for the degree must be completed within a period of 5 years following the attainment of regular standing.

13. Formal application for the degree must be made to the Graduate Studies Committee not later than one month prior to the anticipated graduation.

### MASTER OF SCIENCE IN EDUCATION

Before being classified in regular standing for this degree a student must present at least 18 upper division semester hours in Education and 12 hours of appropriate course work in the field or fields selected for graduate work.

The candidate for this degree may pursue his program of studies according to either of the two following plans:

*Plan I.* In this plan the minimum credit requirement for the degree is 30 semester hours. The student must prepare a thesis of not less than 4 semester hours credit value, which may be included in the minimum 30 hours. The thesis topic must be approved by the Graduate Studies Committee. The candidate takes both oral and written final examinations.

*Plan II.* The minimum credit requirement for this plan is 34 semester hours. In place of a thesis the student may select a project or a practical problem approved by the Graduate Studies Committee, for which he may earn 4 hours credit, to be included in the minimum of 34 semester hours. Final examinations are written. An oral examination may be required in some cases.

The following outline will guide the student in his programming for the Master of Science in Education:

#### *Basic Sequence* — 15 semester hours

	Hours
Administration and Supervision .....	3
Curriculum (Secondary or Elementary) .....	3
Sociological Foundations of Education .....	2
History and Philosophy of Education .....	3
Psychological Foundations of Education .....	2
Methods and Materials of Research .....	2

#### *Plan I* — 30 semester hours

Basic sequence as outlined above .....	15
Teaching field .....	6
Thesis .....	4
Elective .....	5

## Professional and Pre-Professional Programs

### *Plan II* — 34 semester hours

Basic sequence as outlined above .....	15
Teaching field .....	8
Project .....	2
Elective .....	9

## MASTER OF SCIENCE IN TEACHING

As a prerequisite for regular standing the student must present 12 upper division semester hours in Education and at least 18 semester hours of appropriate course work in the field or fields selected for graduate work. A single composite major may be accepted as a teaching field. The minimum credit requirement for this degree is 34 semester hours. The basic sequence for the Master of Science in Teaching and the Master of Science in Education remains the same.

## CREDENTIALS AND CERTIFICATION

Information regarding California State Teachers Credentials or Certification with the General Conference Department of Education may be obtained from the La Sierra College Education Department.

## PROFESSIONAL AND PRE-PROFESSIONAL PROGRAMS

### DIETETICS

For membership in the American Dietetics Association the applicant must hold a bachelor's degree from an accredited institution, must meet specific course requirements, and complete a one-year approved dietetic internship.

The program for the area in which La Sierra College prepares students for the above membership is outlined below. By taking a Foods and Nutrition major in the department of Home Economics it is possible for the student to fulfill these course requirements. (See Home Economics in this Bulletin.)

### REQUIRED CORE SUBJECTS

	Semester	Hours
NATURAL SCIENCES		
Human physiology and bacteriology . . . . .	6	
Chemistry . . . . .	8	
FOOD		
Selection, preparation, meal planning and service .	6	
NUTRITION . . . . .	2	

## Professional and Pre-Professional Programs

### FOOD SERVICE MANAGEMENT

#### REQUIRED COURSES

Organization and Management  
Quantitative cookery

#### ELECTIVE COURSES

Institutional layout and equipment  
Principles of accounting  
Institutional purchasing

MINIMUM OF THE ABOVE . . . . .	9
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### THERAPEUTIC AND ADMINISTRATIVE DIETETICS

#### REQUIRED COURSES

Nutrition  
Personnel management  
Educational psychology  
Nutrition in Disease

#### ELECTIVE COURSES

Experimental foods  
Institutional layout and equipment  
Principles of accounting  
Institutional purchasing

MINIMUM OF THE ABOVE . . . . .	15
	46

Total

## ENGINEERING

People trained in the various specializations into which engineering science is divided are currently in great demand and the demand is likely to continue. La Sierra has arranged a cooperative plan whereby the first three years of the chosen curriculum will be on the La Sierra campus; the final two years will be on the campus of a co-operating university in the area. On successful completion of the three-and-two pattern, the student will receive two degrees — a liberal arts degree from La Sierra College and an engineering degree from the co-operating university.

The pattern of courses at La Sierra will be outlined when the student enrolls, adjusted to the requirements of the cooperating university which the student chooses.

## PREDENTAL

In planning their college courses, predental students should include those courses required by the dental schools to which they plan to apply. Careful attention should be paid to prerequisites and to the proper sequence of courses. Guidance in these matters should be sought from the members of the staff.

Outlined below is a three-year predental sequence as recommended by La Sierra College. All of the courses listed apply on the Bachelor of Arts degree, which many students will choose to complete by an extra year of enrollment, as it is generally recognized that a man's professional life is sooner or later definitely enhanced by his having the bachelors' degree. Those courses marked with an asterisk (\*) are prescribed by the Council on Dental Education of

## Professional and Pre-Professional Programs

the American Dental Association to be included in the two full years (60 to 64 semester hours) of college work which that council has established as the minimum credits for entrance to accredited schools of dentistry, requirements that may be completed in two years.

FIRST YEAR		First Semester	Second Semester
Life and Teachings of Jesus . . . . .		2	2
*Freshman English . . . . .		3	3
Mathematics (5,6) . . . . .		3	3
*General Chemistry . . . . .		5	5
History of Western Civilization . . . . .		3	3
Physical Education . . . . .		$\frac{1}{2}$	$\frac{1}{2}$
		16 $\frac{1}{2}$	16 $\frac{1}{2}$
SECOND YEAR			
Religion . . . . .		2	2
*General Physics . . . . .		4	4
Psychology and Sociology . . . . .		(3)	(3)
or			
Beginning Language . . . . .		3	3
(Beginning language is not taken by those who have, as college entrance credits, two units of the chosen language. If the student intends to do advanced work toward research or scientific specialization, he should choose German as the language; if he intends to practice in an area where some other modern language has vocational utility, he may choose accordingly. Some schools of dentistry do not require language in college.)			
*Zoology . . . . .		4	4
Quantitative Analysis . . . . .		4	
Speech (or Literature) . . . . .			2
Sculpture . . . . .			2
Physical Education . . . . .		$\frac{1}{2}$	$\frac{1}{2}$
		17 $\frac{1}{2}$	17 $\frac{1}{2}$
THIRD YEAR			
*Organic Chemistry . . . . .		4-5	4-5
Comparative Embryology . . . . .		3	
Comparative Anatomy (Course 124) . . . . .			4
American History and Institutions . . . . .		3	3
(Satisfies California state requirements. This course or one in California history and constitution is, by state law, required by dental colleges in California.)			
Intermediate Language . . . . .		3	3
Western World Literature (or Speech) . . . . .		2	2
		15-16	16-17

\*Prescribed by the Council on Dental Education of the American Dental Association, and to be included among the minimum total.

For recommendation to the School of Dentistry at the College of Medical Evangelists, a student should:

- Maintain a satisfactory conduct and character rating.
- Reach a minimum scholarship average of 2.5 in both science and non-science courses.
- Make satisfactory grade in the Dental Aptitude Test.
- Complete satisfactorily at least the minimum entrance requirements (marked with an asterisk above) and California requirements in constitution and government.

## Professional and Pre-Professional Programs

### PREDENTAL HYGIENE

The following outline meets the requirements for entrance to the Dental Hygiene degree course as offered by the College of Medical Evangelists:

	Semester Hours
Religion . . . . .	8
Freshman English . . . . .	6
Speech . . . . .	2
American History . . . . .	6
Sociology . . . . .	3
Psychology . . . . .	6
Must include General Psychology.	
Biological Science . . . . .	10
Must include Anatomy and Physiology (6 hours).	
Chemistry . . . . .	4
Elective . . . . .	15
Total	60

(Some schools of dentistry prescribe for entrance to this curriculum language in either high school or college. Some dental hygiene outlines do not require language; consult the registration adviser.)

### PRELAW

The legal profession is one of the most important and rewarding callings of modern life. Law schools are almost unanimous in requiring as entrance credits thorough liberal arts education (three years or a degree), with adequate courses in history, economics, sociology, political science, English, speech. Some require accounting. The Bachelor of Arts curriculum at La Sierra College meets the requirements. Specific advice will be given to any student as soon as he has selected the law school where he expects to enroll.

### PREMEDICAL

La Sierra College offers students opportunity to prepare themselves for admission to medical colleges.

In planning their college courses, premedical students should include those courses required by the admissions committee of the medical college to which they plan to apply. Careful attention should be paid to prerequisites and to the proper sequence of courses.

A college degree is necessary for admission to most medical schools. With this in mind, students should decide on a major concentration, preferably by the beginning of the second year, and should include the liberal arts requirements in their courses.

For recommendation to the School of Medicine at the College of Medical Evangelists, a student should:

- a. Maintain a satisfactory conduct and character rating.
- b. Reach a minimum scholarship average of 2.5 in both science and non-science courses.

## Professional and Pre-Professional Programs

- c. Take the medical aptitude test during the 12 months preceding his application.
- d. Receive credit for the college work required by the College of Medical Evangelists for admission. The work is as follows:

	Semester	Hours
Religion .....	12	
Freshman English .....	6	
Chemistry .....	16	
Physics .....	8	
Biological Science .....	10	

Must include these minimums: Zoology (15), Comparative Embryology 103 and selections from Mammalian Anatomy or Comparative Anatomy, and Genetics. Botany may not be included in the minimum of ten hours.

\*Foreign Language ..... 6-12

\*When the language taken in college is the same in which the student earned two units on the secondary (high school or academy) level, the minimum requirement on the college level is 6 hours. If a new language is begun on the college level, the minimum requirement is 12 hours.

## PREMEDICAL TECHNOLOGY

College work totalling 96 semester hours is required as preparation for medical technology. The required courses are listed below in the approximate order in which they should be taken.

	Semester	Hours
Religion* .....	12	
Freshman English .....	6	
Mathematics .....	6	
General Chemistry .....	10	
General Zoology .....	8	
Physical Education .....	2	
Beginning Language (or two units high school)....	6	
General Physics .....	8	
Quantitative Analysis .....	4	
Microbiology (or Bacteriology) .....	3-4	
Mammalian Anatomy .....	2	
Organic Chemistry .....	8	
Physiology .....	4-5	
American History and Institutions** .....	6	
Biochemistry .....	4	
Electives .....	6-8	

\*Two hours of religion for every semester of attendance.

\*\*This course is so organized that it fulfills the California state requirement for California history and constitution.

## PREPHARMACY

The college work specified as entrance requirements to schools of pharmacy varies a great deal from university to university; some two years, and others one year. The prospective pharmacy student can get all of the prepharmacy requirements at La Sierra College, where he will be specifically advised as to a study list as soon as he has decided on the particular school of pharmacy for which he would like to prepare.

## Professional and Pre-Professional Programs

### PREPHYSICAL THERAPY CURRICULUM

#### \*FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (1, 2) . . . . .	2	2
Freshman English (1-2) . . . . .	3	3
General Psychology (5) . . . . .	3	
Sociology . . . . .		3
Zoology 15, 16 . . . . .	4	4
Introductory Chemistry . . . . .	3	3
Physical Education . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15½	15½

#### \*SOPHOMORE YEAR

Religion . . . . .	2	2
American History and Institutions (91, 92) . . . . .	3	3
Fundamentals of Speech (5) . . . . .	3	
Psychology (54) . . . . .		3
General Bacteriology (58) . . . . .		4
Electives . . . . .	7	3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15½	15½

\*Some schools of Physical Therapy call for General Physics and Anatomy and Physiology as prerequisites. The student should be sure to note the requirements of the particular school he proposes to enter.

#### HELPFUL ELECTIVES

Human Nutrition 99  
 Elementary Organic Chemistry 71  
 Sociological Problems (Sociology 62)  
 Vegetable Gardening 7, 8

Typewriting  
 Woodworking 35  
 Mammalian Anatomy 73  
 Health Principles 59  
 Health 75

### PRESOCIAL WORK

The profession of social work requires graduate training which includes both classroom courses and field work in a social agency. In preparation for this a broad foundation in the social sciences with an undergraduate orientation in social work will not only prepare the student for graduate school, but will also make him eligible for some positions in social work agencies, particularly in the field of public welfare, which do not require advanced training. The various careers which are open in social work include child welfare agencies, public institutions for the defective and delinquent, medical and psychiatric social work in hospitals and clinics, parole, probation, and numerous other fields private as well as public.

A major in Social Science to include the following courses is recommended for those planning to enter the field of social work.

Economics 51-52 .....	6 hours
Health 59 .....	2 hours
Sociology 123, 124. Principles of Social Welfare	4 hours
Courses in biology, physiology, or zoology.	

Students should consult with the adviser in the Social Science department for selection and arrangement of cognate courses.

# Professional and Pre-Professional Programs

## PRE-X-RAY TECHNIQUE

One year of college work with a total of 32 semester hours is ordinarily considered desirable preparation for X-ray technique.

The course of study must include college physics. It is also recommended that courses in chemistry, anatomy, and physiology be taken.

## PROFESSIONAL NURSING

La Sierra College and the College of Medical Evangelists are jointly offering a curriculum in Basic Professional Nursing leading to registration and a Bachelor of Science degree with a major in nursing. This cooperative plan between the institutions concerned makes possible the strength to be derived by drawing teaching personnel from the faculties of both institutions and by blending liberal arts courses on the La Sierra College campus with professional nursing education and clinical experience in hospital teaching facilities and health agencies.

The first year of this curriculum takes place on the La Sierra campus. During this year the student is introduced to nursing and resources for community health. Before the beginning of the sophomore year the student will need a brief summer term on the Loma Linda campus antecedent to the beginning of the second year.

During the fourth year the student will have experience in public health nursing, advanced psychiatric nursing, and ward management. This year is integral with the first three as completing requirements for the Bachelor of Science with a major in nursing. The degree will be conferred by the College of Medical Evangelists.

FIRST YEAR (On the La Sierra Campus)			First Semester	Second Semester
Freshman English	.	.	3	3
Religion (1, 2 or 3,4)	.	.	2	2
Psychology	.	.	3	
Sociology	.	.		3
Nutrition (99)	.	.	2	
Anatomy and Physiology (5)	.	.	5	
Microbiology (8)	.	.		3
Chemistry (3)	.	.		4
(High school chemistry is a prerequisite.)				
Introduction to Nursing and Community Health	.	.		2
Physical Education	.	.	$\frac{1}{2}$	$\frac{1}{2}$
			15½	17½

The above outline of courses for the first year of professional nursing also fulfills prenursing requirements for the Glendale School of Nursing and others. Before registering, however, the student is advised to consult the nursing school of his choice in order that he may be informed relative to specific prenursing requirements.

## Professional and Pre-Professional Programs

It is recommended that students planning to enter the nursing course in 1962 complete a high school physics course prior to registration for the first year of nursing.

### PUBLIC RELATIONS

Students interested in pursuing a career in public relations are advised to counsel with the Social Science Department chairman in regard to their curriculum. La Sierra College, as do the majority of colleges and universities, believes that a strong liberal arts background is basic to a successful career in public relations. With this in mind, the student will find himself taking courses in English, speech, journalism, news writing, psychology, sociology, and other disciplines in the social science area.

### SCIENCE AND MATHEMATICS SECONDARY TEACHING MAJOR

Recent years have witnessed an increased emphasis on science teaching, and at the same time the lines of demarcation between the traditional disciplines of biology, chemistry, mathematics, and physics are disappearing. This, coupled with the fact that even in many of the larger high schools the science teachers must teach in more than one area, has meant that the secondary teacher of science must have breadth of training; yet at the same time he must have sufficient depth so that he may have a feeling of confidence. The Science and Mathematics Secondary Teaching Major has been introduced to serve this need.

The major consists of 64 semester hours of work spread over the four areas of biology, chemistry, mathematics, and physics so that there is a concentration of 22 hours in one area and 14 hours in each of the three other areas (at least 3 hours in each of the four areas must be taken at La Sierra College). The following courses, or their equivalents are required:

Biology 11 (General Botany) .....	4 hours
Biology 15 (General Zoology) .....	4 hours
Chemistry 5-6 (General Chemistry) .....	10 hours
Mathematics 51, 52 (College Mathematics) .....	6 hours
Physics 51, 52 (College Physics) .....	8 hours

The remaining science courses — of which 20 hours must be upper division and which must include Physics 151, 177-AN and Mathematics 71 and 72 or 161 — are selected, in consultation with the adviser, so that the above distribution is met and so that the particular choice will be of maximum usefulness to the secondary teacher.

Because this major is designed for the training of secondary science and mathematics teachers, 12 hours of cognates must be chosen from the offerings of the secondary education department.

## Professional and Pre-Professional Programs

The Master of Science in Teaching, taken at La Sierra College during the fifth year or subsequent summers, will make it possible for the student to complete his preparation for teacher certification and at the same time strengthen his preparation in the sciences.

### CURRICULUM FOR SCIENCE AND MATHEMATICS SECONDARY TEACHING MAJOR

(Suggestive only)

#### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings (Religion 1,2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
Mathematics (51, 52) . . . . .	3	3
General Botany (Biol. 11) . . . . .	4	
General Zoology (Biol. 15) . . . . .		4
U. S. History (History 91, 92) . . . . .	3	3
Physical Education (7,8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15%	15%

If the student does not have two secondary units of college entrance credits in language, he will need to take, in the summer between the freshmen and sophomore years, six required hours to make room for beginning language during the regular year.

#### SOPHOMORE YEAR

Religion . . . . .	2	2
Intermediate Language (53-54) . . . . .	3	3
General Psychology (Psych. 5) . . . . .	3	
History of Western Civilization (History 52) . . . . .		3
Physics (51, 52 or 61, 62) . . . . .	4	4
Mathematics (71; 72 or 161) . . . . .	3	5 or 3
Physical Education (55,56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15%	17% or 15%

#### JUNIOR YEAR

Applied Arts . . . . .	3	
Fine Arts . . . . .		3
General Chemistry (5-6 or 7-8) . . . . .	5	5
Literature and Speech . . . . .	3	3
Audio Visual Methods and Materials (Ed. 103) . . . . .	2	
Philosophy and History of Education (Ed. 162) . . . . .		3
Science Electives . . . . .	3	2
	16	16

#### SENIOR YEAR

Religion . . . . .	2	2
Educational Measurements (Ed. 155) . . . . .		3
Principles of Guidance (Ed. 153) . . . . .	2	
Principles of Secondary Teaching (Ed. 165) . . . . .	2	
Methods of Teaching Science and Mathematics . . . . .		2
Science Electives . . . . .	10	9
	16	16

## Professional and Pre-Professional Programs

### STENOGRAPHIC CERTIFICATE (TWO-YEAR)

The certificate program includes training in basic skills and prepares for clerical and stenographic positions. A comparison of the requirements with those for the first two years of the degree program will show that it is possible to complete the requirements for a B.S. in two years after receiving the certificate.

#### FIRST YEAR

*Beginning Shorthand (Secretarial Science 7)	. . .	4	
*Shorthand Dictation (Secretarial Science 8)	. . .		4
Secretarial Accounting (Secretarial Science 14)	. . .	3	or 3
Religion (1, 2)	. . . . .	2	2
Freshman English (1-2)	. . . . .	3	3
*Beginning Typewriting (Secretarial Science 3)	. . .	2	
Physical Education (7,8)	. . . . .	$\frac{1}{2}$	$\frac{1}{2}$
Speech (any course)	. . . . .	2	or 2
General Psychology (5)	. . . . .	3	or 3
Electives	. . . . .	3	or 3
		<hr/>	
		32	

#### SECOND YEAR

Religion (any course)	. . . . .	2	or 2
*Dictation and Transcription (Secretarial Science 63, 64)	. . .	4	4
Advanced Typewriting (Secretarial Science 57)	. . .	2	or 2
Office Procedures (Secretarial Science 70)	. . .		3
Business Machines (Secretarial Science 53)	. . .	2	or 2
American History (History 91, 92)	. . . . .	3	3
Physical Education (55, 56)	. . . . .	$\frac{1}{2}$	$\frac{1}{2}$
Indexing and Filing (Secretarial Science 54)	. . .	1	or 1
Home Economics (any course)	. . . . .	3	or 3
Electives	. . . . .	2	2
		<hr/>	
		32	

\*Shorthand is not required for the certificate; however, students are encouraged to include at least 2 semesters of shorthand in their programs.

\*\*Students entering with high school credit in shorthand and/or typewriting may substitute electives for shorthand and Beginning Typewriting.

## THEOLOGY

La Sierra College Theology training program is designed to prepare preachers and teachers for a professional career in the highest sphere of human experience and thought in the realm of religion. The purpose of this training requires that a careful selection of candidates for admittance be made not only on the basis of preparatory scholastic accomplishments, but also on the basis of spiritual qualities, social sympathies, cultural refinement, and aptitude for the ministry.

Candidates for the ministry are eligible for ministerial internship after the completion of 128 college hours leading to a Bachelor of Arts degree with a major in Theology and a fifth year of a minimum of 38 hours of professional training at the Theological Seminary. No student will be graduated with a recommendation to the ministry or to the Seminary merely on the basis of the accumulation of the required number of credit hours.

## Professional and Pre-Professional Programs

Requirements and recommended electives for a major in Theology are outlined as follows:

<i>Major Requirements</i>	Semester Hours		Semester Hours
Life and Teachings of Jesus or Foundations of Christianity.....	4	Gift of Prophecy.....	3
Introduction to Theology.....	4	Homiletics .....	6
Daniel and Revelation.....	5	Old Testament Prophets .....	6
New Testament Epistles.....	6	Philosophy of Religion .....	4
		Evangelism .....	2

<i>Cognate Requirements</i>	Semester Hours		Semester Hours
History of Western Civilization	3-6	Greek 7-8, 65-66, 2 hrs. elective	14
		History of Church Music 113, 114 .....	4
		(Substitutes for Fine Arts 58)	
History of Christian Church.....	6	Social Sciences (should include	
Speech (must include Speech 5)	6	Psychology and Principles of	
		Education) .....	6

### *Recommended Electives*

Religion 101, 118, 134  
Biblical Languages 145, 146,  
149, 155-156, 158  
History 103, 104, 106,  
152, 155  
Education 61, 162  
English 113, 114, 160, 170  
Sociology 47, 62, 74, 75, 85,  
132, 137, 169, 184

Music 60  
Biology 181  
Accounting  
Journalism  
Typing (2 hours may apply  
on applied arts requirement)  
Psychology 54, 101, 107

The fifth year at the Seminary, as outlined by the committee on Ministerial Training of the General Conference, shall consist of a full twelve months of study during which the student shall complete 38 hours of the core curriculum leading to the Bachelor of Divinity degree. Courses shall be taken from the five main areas of Seminary study: Old Testament, New Testament, Systematic Theology and Christian Philosophy, Church History, and Applied Theology. Students are strongly advised to plan to continue their studies toward the Bachelor of Divinity degree.

## SUMMER SESSIONS

Sessions of ten and eight weeks are organized each summer, giving special emphasis to course work leading to teacher certification, California State credentials, and Masters degrees in Education. Offerings in general education and a number of content fields, in addition to the professional courses, make the summer sessions profitable to many students pursuing educational objectives other than professional education.

The summer session BULLETIN and further information may be obtained by writing the Secretary of Admissions or the Dean of the College.

## Divisions of Instruction

### DIVISIONS OF INSTRUCTION

#### I. THEOLOGY, RELIGION, AND COGNATE STUDIES

Walter F. Specht, *Chairman*

Religion, Applied Theology, Religious History, Philosophy,  
Biblical Languages.

#### II. SCIENCE AND MATHEMATICS

Lloyd E. Downs, *Chairman*

Department of Biology, L. E. Downs.

Department of Chemistry, L. W. Botimer.

Department of Physics, J. W. Riggs, Jr.

Mathematics.

#### III. SOCIAL STUDIES

Wilfred J. Airey, *Chairman*

Department of History, W. J. Airey.

Department of Social Sciences, F. G. Hoyt.

#### IV. EDUCATION

George T. Simpson, *Chairman*

Department of Education, G. T. Simpson, Maybel Jensen.

Department of Psychology, Stanley Bull.

Department of Health and Physical Education, W. J. Napier.

#### V. LANGUAGE AND LITERATURE

Thomas A. Little, *Chairman*

Department of English, T. A. Little.

Department of Speech, W. F. Tarr.

Department of Romance Languages, Margarete Hilts.

Department of German, Kaljo Magi.

Journalism.

#### VI. MUSIC AND ART

Harold B. Hannum, *Chairman*

Department of Music, H. B. Hannum.

Department of Art, Chloe Sofsky.

#### VII. APPLIED ARTS

H. Russell Emmerson, *Chairman*

Department of Home Economics, Mary Byers.

Department of Building Construction, H. R. Emmerson.

Department of Agriculture, Frank Judson.

#### VIII. BUSINESS AND SECRETARIAL SCIENCE

Ralph L. Koorennny, *Chairman*

Department of Business Administration, R. L. Koorennny.

Department of Secretarial Science, Irene Ortner.

## Courses of Instruction

### COURSES OF INSTRUCTION

LOWER DIVISION COURSES are numbered 1 to 99, those numbered 1 to 49 being freshman offerings. Sophomores may take courses numbered 1 to 99 but normally in the 50 to 99 group. Juniors usually and seniors, as may be necessary, register for some lower division courses, although seniors may not take freshman offerings (1 to 49) for hour credit. UPPER DIVISION COURSES are numbered from 100 to 199. Such courses are open only to juniors and seniors or others qualified for upper biennium work. Graduate courses are numbered from 200 to 299 and are open only to graduate students.

Following the course titles, figures (and combinations of figures) appear, between parentheses, to indicate the credit which successful completion of the course earns in semester hours. A hyphen between the figures indicates that both semesters must be taken in order to earn the credit, the amount of credit for each semester being that on the respective sides of the hyphen. A comma between the figures means that the indicated credit for either semester is valid without respect to the other. In a few "comma courses" the course descriptions specify that credit for the first semester is prerequisite to enrollment for the second. Normally, the student must take the semesters of a "hyphen course" in sequence and may not enroll for the second semester without credit for the first.

Available majors and minors are listed in their respective sections. Of the courses listed, those marked with an asterisk (\*) will be offered in 1962-1963, those without this mark will be offered in 1961-1962 if in sufficient demand. Courses marked with the double asterisk (\*\*) are offered as needed by majors or minors and then only by special arrangement.

The college reserves the right to withdraw a lower division class offering for which fewer than ten students have registered.

### AGRICULTURE

FRANK JUDSON (head), L. A. DAVIS, H. A. HABENICHT,  
G. A. HOUCK

The Agriculture Department at La Sierra College is organized to develop vocational proficiency in those students who emphasize some aspect of American farm life in their education. Majors will also normally be prepared to go into more advanced curriculums as preparation for teaching positions or research in the field. The non-majors who take an occasional course in the department learn something of the social implications of agricultural pursuits and develop a limited acquaintance with the soil. The dignity of labor and the response of Nature to man's efforts as he helps himself are significant lessons for every student in the department.

The 498-acre farm on which the college is located is an ideal

situation for the student who would achieve such aims. Crops are being planted every month of the year. Poultry, sheep, horses, and dairy and beef cattle offer splendid opportunity for firsthand experience with livestock. The management of the entire farming program is done by the teaching faculty and aims to provide skill and management experience to students interested in agriculture.

*Major Requirements* for the Bachelor of Science degree: 38 hours, of which a minimum of 18 must be in the upper biennium; no more than 6 hours of Biology may apply on the 38 hours.

Required courses: Agriculture 7, 11, 55, 93, and 187. Course 188 will be required of all students who have not had at least two years of work experience on a farm as a full-time worker or one year as a worker while a student of agriculture at La Sierra College.

Required cognate courses: Biology 11, 15, 16; Chemistry 1-2 or 5-6; Mathematics 5, 6; Business Administration 55, 56.

Recommended electives: Biology 58, 122, 135, and 145.

*Minor Requirements:* 20 hours, of which a minimum of 5 must be in the upper division.

### PLANT PRODUCTION AND SOILS

#### 7. VEGETABLE GARDENING (2)

Emphasis is placed on present varieties and cultural methods.

#### 8. VEGETABLE GARDENING EXPERIENCE (2)

A practical continuation of the material studied in 7. Two laboratory periods each week. Prerequisite: Agriculture 7.

#### 11, 12. FIELD AND FORAGE CROPS (2, 2)

A study of the distribution, cultural methods, and economic importance of the main farm crops.

#### 55. SOILS (3)

A course dealing with the genesis, physical and chemical properties, and classification of the soil. Prerequisites: Chemistry 1-2 or concurrently with Chemistry 1-2 if secondary credit in chemistry is recorded.

#### 68. HOME FRUIT PRODUCTION (2)

Survey of recommended practices in the growing of grapes, strawberries, and bush and tree fruits for the home.

#### 122. PLANT PHYSIOLOGY (3)

(See Biology 122.)

## Agriculture

132. SOIL FERTILITY\* (2)  
The influence of crop rotation, green manure practices, drainage, and commercial fertilization is studied. Emphasis is placed on soil conservation. Prerequisite: Agriculture 55.
135. ENTOMOLOGY\* (3)  
(See Biology 135.)
138. IRRIGATION (2)  
A specialized course for those planning to locate in the Southwest or other arid regions. Water supply, crop requirements, efficient application are emphasized. Two lectures each week with appropriate laboratory experience arranged. Prerequisite: Agriculture 55 and Mathematics 5, 6.
145. PLANT PATHOLOGY\* (3)  
(See Biology 145.)
160. COMMERCIAL FRUIT PRODUCTION\* (3)  
A thorough study of modern practices of pruning, pest control, soil management, and marketing from the point of view of one producing fruit as a business. Appropriate laboratory work arranged.
- 168-169. COMMERCIAL VEGETABLE PRODUCTION\*\* (2-2)  
A laboratory course giving the student opportunity to participate in the producing and packing of various vegetables for market. Records and cost accounts will be kept on the crops. Spring and summer only. Prerequisites: Agriculture 7 and 8.

## LIVESTOCK AND COGNATE

28. POULTRY HUSBANDRY (2)  
A general course dealing with the practical phases of the poultry industry.
52. DAIRY HUSBANDRY (3)  
A general study of the economic aspects, selection, breeding, feeding, and management of dairy cattle. A brief presentation of dairy sanitation is included.
62. POULTRY BROODING (2)  
A laboratory course in which the student has full responsibility for the care of a brood of chicks during the first six weeks of life. Prerequisite: Agriculture 28.
82. ANIMAL HUSBANDRY\* (3)  
Modern practices in care, use, and marketing of cattle, sheep, horses, mules, etc., are evaluated.
106. POULTRY MANAGEMENT\*\* (2)  
Conferences dealing with the problems of poultry management. Required laboratory work includes feeding, culling, and processing of eggs. Costs of production are studied on assigned flocks. Prerequisite: Agriculture 28.

## Agriculture

### 112. ANIMAL NUTRITION\* (2)

A study of the fundamental needs and practices of animal nutrition.  
Prerequisite: Chemistry 71.

### 115. LIVESTOCK SANITATION AND DISEASE CONTROL\* (2)

A brief study of the anatomy of the common farm animals, and the symptoms, diagnosis, and prevention of their disorders and diseases.  
Prerequisites: Agriculture 82 and Zoology 15, 16.

### 178. DAIRY PLANT OPERATION\*\* (3)

A course of study planned to train the student in the processing of fluid milk, manufacture of butter, ice cream, and other dairy products. Satisfactory completion of the course includes the passing of the State Pasteurizer's Examination. Two lectures and one laboratory each week. Prerequisite: Biology 8 or 58.

## GENERAL COURSES

### 74. FARM MACHINERY (3)

Selection, operation, and use of common farm implements. Two lectures and one laboratory each week.

### 93. TRUCK AND TRACTOR MECHANICS\* (3)

The theory and actual experience of maintaining and repairing truck and tractor engines are fully gained by those meeting the requirements of this course. Two lectures and one laboratory each week.

### 171. AGRICULTURE ECONOMICS (2)

A course to train the student in evaluating data, coordinating farm activities with the business world, and applying economic principles to farm operation. (Does not fulfill basic applied arts requirements.)

### 187, 188. FARM MANAGEMENT (3, 3)

A lecture, problem, and directed experience course stressing effective farm planning and logical procedures for solving problems in operating a farm. Directed experience in labor relations and distribution, planting, harvesting, marketing, and livestock care is included in the laboratory work. 187 is prerequisite to 188. 18 hours of agriculture is prerequisite to 187.

# Agriculture

## CURRICULUM FOR MAJOR IN AGRICULTURE (B.S.)

(Suggestive only)

	First Semester	Second Semester
FRESHMAN YEAR		
Life and Teachings of Jesus (Religion 1,2)	2	2
Freshman English (English 1-2)	3	3
Vegetable Gardening (Agriculture 7,8)	2	2
Fields and Forage Crops (Agriculture 11, 12)	2	2
Poultry Husbandry (Agriculture 28)	2	
Home Fruit Production (Agriculture 68)		2
General Botany (Biology 11)	4	
General Psychology (5)		3
Physical Education (7,8)	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	14 $\frac{1}{2}$
SOPHOMORE YEAR		
Religion	2	2
Chemistry (Chemistry 1-2)	3	3
General Zoology (Biology 15, 16)	4	4
Introductory Mathematics (Mathematics 5, 6)	3	3
Soils (Agriculture 55)	3	
Animal Husbandry (Agriculture 82)		3
Physical Education (55, 56)	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	15 $\frac{1}{2}$
JUNIOR YEAR		
History		3
American History and Institutions (History 91, 92)	3	3
Speech	3	
Literature		3
Principles of Accounting (Accounting 55, 56)	3	3
*Agriculture (Elective)	8	5
	17	17
SENIOR YEAR		
Religion	3	3
Truck and Tractor Mechanics (Agriculture 93)	3	
Farm Management (Agriculture 187)		3
*Agriculture (Electives)	2	
Electives	8	11
	16	17

\*In consultation with the head of the department, the student will choose agriculture electives to meet the specific requirements of whichever field he has chosen for major emphasis: agronomy, animal husbandry, general agriculture.

## ART

CHLOE SOFSKY, HERSCHEL HUGHES

The department of Art seeks to develop in the students an appreciation of the masterpieces of art; to aid them in understanding the basic principles of true art and their applications to life situations; and to develop as far as possible technical proficiency in artistic performance.

*Major Requirements:* 34 hours, of which a minimum of 18 must be in the upper division. Required courses 53, 65, 103, 107, 117, 118, 199. In course 199 the senior art major will complete a work, or a series of works, with a particular problem to solve, this problem to be worked out with the teacher. Upon completion of this course, the student will exhibit his work in the course, along with such other of his works as are of sufficient quality. The exhibition will be in the gallery or other appropriate place, and the student will be requested to leave one of his better pieces with the permanent collection of the gallery. (An art major will not be required to take General Education Fine Arts 57.)

*Minor Requirements:* 20 hours, of which a minimum of 9 must be in the upper division. Required courses: 53 and 65. (General Education Fine Arts 57 required for art minor.)

*Commercial Art Minor Requirements:* 20 hours, 9 of which must be upper division.

*Required courses:* 54, 55, 56, 57 (General Education Fine Arts), and electives from 53, 65, 103, 107.

### 51. LETTERING (2)

Lectures, laboratory assignments in single stroke Roman, English Text, and other traditional alphabets. Creative modern lettering. Simple layouts.

### 53. DESIGN I (1 or 2)

A study of the basic art elements and their function in the composition. Laboratory assignments with definite application of the principles studied.

### 54. INTRODUCTION TO COMMERCIAL ART (2,2)

A course to develop skill in the techniques of lettering, poster layout, and composition fitting. A basic background in the principles of commercial art.

### 55. ADVERTISING DESIGN (2,2)

A class designed to develop a thorough understanding of the various printing processes and to develop skill in techniques suitable for these processes.

### 56. PHOTOGRAPHY (2)

Basic composition of pictures, use of camera, and the developing and printing of the photograph. Special emphasis on the use of photography in advertising and commercial art.

## Art

59. CERAMICS I (1 to 6)  
Modeling and glazing of simple pottery forms.
61. SCULPTURE (1 to 6)  
Modeling or carving in various media. The study of suitability of subject to medium. Special project for preidental students.
65. FUNDAMENTALS OF DRAWING AND PAINTING (1 to 6)  
A foundation course in the principles and techniques of drawing and painting. Laboratory assignments in various media.
103. PAINTING (1 to 8)  
Landscape, still-life, or portrait in oil or water color.  
Prerequisite: Art 65.
107. DESIGN II (1 to 6)  
A study of the art elements and their application to abstract design and studies in layout and illustration.  
Prerequisite: Art 53.
111. CERAMICS II (1 to 2)  
Throwing on the potter's wheel; special experiments in glazes.  
Prerequisite: Art 59.
- 117, 118. HISTORY OF ART (2, 2)  
A chronological study of the various periods in the development of architecture, sculpture, and painting from the earliest times to the present. First semester: from ancient art through Gothic; second semester: from Renaissance through modern art.
199. SENIOR PROJECT (2 to 3)  
A mural or a series of paintings, or a special project in ceramics, planned for the senior student majoring in Art. This project must exhibit an acceptable degree of technical facility and creative power.

### GENERAL EDUCATION FINE ARTS

57. INTRODUCTION TO VISUAL ARTS (3)  
A basic general education course in understanding painting, sculpture, architecture and other arts. Given each semester. Required for B.A. degree.

## CURRICULUM FOR ART MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History (51, 52, or 91, 92) . . . . .	3	3
Freshman English (English 1-2) . . . . .	3	3
Beginning Language (French recommended) . . . . .	3	3
(Not required of those who present two units of college entrance in the chosen language)		
General Psychology (5) . . . . .	3	
Oral Interpretation (Speech 62) . . . . .		2
Electives on Major Concentration (53 or 65) . . . . .	2	3
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

### SOPHOMORE YEAR

Religion . . . . .	2	2
Elementary Photography (Recommended) . . . . .		2
Intermediate Language . . . . .	3	3
General Education Basic Science (Science 63, 64) . . . . .	4	4
Beginning Public Address (Speech 71) . . . . .	2	
Electives on Major Concentration . . . . .	3	4
Health Principles (Health 59) . . . . .	2	
Elective . . . . .		1
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

### JUNIOR YEAR

History of Art (Art 117, 118) . . . . .	2	2
History (51, 52, or 91, 92) . . . . .	3	3
Electives: (Home Economics 59, 190; Building Construction 41 Recommended) . . . . .	2	2
Language . . . . .	2	
Electives on Major Concentration (Upper Division) . . . . .	6	5
Electives . . . . .	1	4
	16	16

### SENIOR YEAR

Religion (Upper Division) . . . . .	2	2
Renaissance History (History 151 recommended) . . . . .	3	
Literature (Upper Division) . . . . .	2	2
Electives on Major Concentration (Upper Division) . . . . .	4	3
Electives (8 hours Upper Division) . . . . .	4	8
	15	15

## Biblical Languages

### BIBLICAL LANGUAGES

W. F. SPECHT, ROYAL SAGE

*Major Requirements:* 30 hours, with a minimum of 16 in the upper division.

Required courses: Biblical Languages 7-8; 65-66; 145, 146; 155-156.

*Minor Requirements:* 20 hours, a minimum of 8 in the upper biennium. Prerequisite for Greek courses numbered 100 or above is 12 hours or the equivalent in that language.

#### 7-8. BEGINNING NEW TESTAMENT GREEK (3-3)

A study of the elements of the Greek language in the vernacular koine of the first century, A.D.; readings from the Gospel and Epistles of John; three class periods and two tutorial sessions per week.

#### 51-52. BEGINNING LATIN (3-3)

An intensive study of the fundamentals of Latin grammar, with emphasis on vocabulary-building and the ability to read simple Latin prose. Designed to prepare the student for the reading of the Latin Vulgate and the religious literature of the Middle Ages.

#### 65-66. INTERMEDIATE NEW TESTAMENT GREEK (3-3)

A course in translation and grammatical interpretation of selected readings from the Gospels, the Apocalypse, and the Acts of the Apostles. Further study of the syntax, vocabulary, and Greek idiom of the New Testament.

#### 145, 146. PAULINE EPISTLES (3, 3)

Reading and exegetical study of the Greek text of Paul's letters, with special attention to the historical, grammatical, and textual questions involved. May be substituted for Religion 161, 162.

#### 149. TEXTUAL CRITICISM OF THE NEW TESTAMENT\* (2)

A study of the materials, methods, and history of New Testament textual criticism, with practical exercises using microfilms and facsimiles of manuscripts.

#### 150. TRANSLATION PROBLEMS (2)

The methods and resources of the art of translation. A critical examination of some of the more important translation problems with suggestive solutions.

#### 155-156. BEGINNING HEBREW\* (3-3)

An introduction to the elements of the Hebrew language; readings from the book of Genesis.

#### 158. GENERAL EPISTLES\* (2)

An exegetical study of the Greek text of the epistles of James, Peter, Jude, and John with attention to the historical, syntactical, and textual problems involved.

#### 161. READINGS IN THE SEPTUAGINT (2)

Reading and translation of selected portions of the Greek Old Testament. Comparisons will be made with the Hebrew, with special attention to the characteristics of translation Greek and the relation of the language of the LXX to the Koine and the Greek of the New Testament.

## BIOLOGY

L. E. DOWNS (head), E. W. LATHROP, HAROLD R. MILLIKEN,  
E. A. WIDMER

The objective of this department is to achieve an understanding of nature and natural law. The courses are designed to stress scientific methods and disciplines in reaching rational and logical conclusions and to provide offerings from which to choose for personal enrichment or for professional attainment. The student is motivated through the attraction of learning about living things. Along with the teacher, he learns to appreciate the mystery of life, while his attention is turned to the Author of Life.

*Major Requirements:* 36 hours. Required courses are: 11, 15, 16; and twenty-four hours of upper division, including courses 108, 154, 181. Electives for any combination must have the approval of the head of the department.

Cognate requirements: Chemistry 5-6 and either Chemistry 113-114 or Physics 51, 52 (both are highly desirable, as is also Chemistry 134 and 155-156). Students planning graduate work in biology may need additional hours of undergraduate work in biology and chemistry. Biology majors are advised to take German or French to meet the language requirement.

Courses 5, 8, 51 and 64 cannot apply on the major.

*Minor Requirements:* 18 hours. Requires courses are 15, 16 or 11, 108 or equivalent, plus 10 or 11 hours from the upper division. Electives for the minor must have the approval of the head of the department.

Courses 5, 8, 11, 15, 51, 64, and 183 may be taken by the general college student without prerequisite.

Those desiring a Bachelor of Science degree in Botany or Zoology should consult the head of the department.

**HONORS STUDIES IN BIOLOGY.** Consult this BULLETIN for a description of the Honors Program at La Sierra College. Honors credit in Biology to the extent of 2 semester hours each is available in 152-H and 154-H.

For Division Major (Science and Mathematics Secondary Teaching Major) see under Professional and Pre-Professional Programs.

### GENERAL EDUCATION BASIC SCIENCE

This is a science course which should normally be chosen by the student not intending to make any natural science his field of major concentration.

#### 64. NATURAL SCIENCE: BIOLOGICAL (4)

A study of the physiology and morphology of various types of living organisms with particular reference to man and his environment. Laboratory: three hours each week.

Not applicable on a major. Offered both semesters.

# Biology

## GENERAL BIOLOGY

8. MICROBIOLOGY (3)  
A study of the general principles of structure, function, and control of microorganisms for general students. Includes the study of bacteria, yeasts, molds, pathogenic protozoa, rickettsia, viruses, and their relationship to disease. Laboratory: three hours each week. Credit not given for this course and 58. Cannot apply on the biology major.
51. NATURE STUDY\* (2)  
An Introductory course in nature study in which the student learns to appreciate a variety of plant and animal forms in their natural state. Helpful to prospective teachers and others who wish an introduction to the subject. Laboratory: three hours each week. Transportation charge, \$10.00.
152. FIELD BIOLOGY (3)  
A course designed to acquaint the student with the principles involved in field study of plants and animals. Includes ecological considerations, collecting and preserving techniques, and methods of field recording and reporting. Laboratory: six hours on alternate Sundays. A \$10 transportation fee will be charged for each student. Prerequisite: Biology 11 and 15 or equivalent.
154. GENETICS (3)  
A study of the principles of heredity and variation and their causes as demonstrated by animal and plant breeding. Laboratory: three hours each week. Prerequisite: Biology 11 or 15 or equivalent.
162. GENERAL ECOLOGY (3)  
A study of interrelations of plants and animals in their life processes and their relation to the environment. Emphasis is given to ecological principles and to composition of typical N. A. Communities. Laboratory: six hours on alternate Sundays. A \$10 transportation fee charged to each student. Prerequisite: Biology 11 and 15 or equivalent.
166. MICROTÉCHNIQUE\* (3)  
Preparation, mounting, and staining of plant and animal tissues on slides for microscopic study. Laboratory: six hours each week. Prerequisite: Biology 11 (or 15 and 16) or equivalent.
171. CELL PHYSIOLOGY (2)  
A study of the fundamental life processes of animals, plants, and microorganisms. Prerequisites: Biology 11, 15, or equivalent, and a chemistry course. It is highly desirable that students take organic chemistry and physics before registering, or concurrently.
181. PHILOSOPHY OF SCIENCE (3)  
A survey of the basic philosophies of science with consideration of the origin and distribution of species.
188. METHODS OF BIOLOGICAL RESEARCH\* (2)  
A study of biological literature, techniques of research, and characteristics of a scientific paper. Prerequisite: Biology 15 or equivalent.

## 199. PROJECTS AND TOPICS IN BIOLOGY 1 or 2)

Experimental and library study of a selected problem of limited scope may be arranged with the head of the department. Regular conferences will be arranged with the head of the department and the instructor concerned. May or may not involve original research. Limited to upper division biology majors and specially prepared minors with a minimum over-all grade point average of 2.5 and of 3.0 in the field of biology. Offered either or both semesters.

## PLANT SCIENCE

### 11. GENERAL BOTANY (4)

The fundamentals of plant life as studied through the structure and function of typical forms. Laboratory: three hours each week.

### 58. GENERAL BACTERIOLOGY (4)

Designed to broaden the student's view of life and his understanding of the organisms contributing to decay, fermentation, health, disease, and the biological balances in nature. Laboratory: three hours each week. Credit not allowed for this course and 8.

Prerequisites: Biology 11 or 15 or equivalent; Chemistry 5-6 desirable.

### 108. MORPHOLOGY OF PLANTS (3)

Detailed studies of type forms of Thallophytes, Bryophytes, and Tracheophytes. Life cycles, classification, and structural features emphasized. Transportation charge, \$5.00.

Laboratory: three hours each week.

### 122. PLANT PHYSIOLOGY (3)

A study of plant processes with special emphasis on the processes of osmosis, diffusion, photosynthesis, respiration, and mineral nutrition. Laboratory: three hours each week. Enrolment limited to 15.

Prerequisite: Biology 11 or equivalent.

### 132. SYSTEMATIC BOTANY\* (3)

A study of the taxonomy of flowering plants. Includes the study of morphological structures used in identification, family characteristics, and technique of identification and use of a key. Laboratory: three hours each week. Transportation charge, \$10.00.

Prerequisite: Biology 11 or equivalent.

### 137. PLANT ANATOMY (3)

A study of the microscopic anatomy of plant tissues with emphasis on their origin and development. Laboratory: three hours each week.

Prerequisite: Biology 11 or equivalent.

### 145. PLANT PATHOLOGY\* (3)

A study of the diseases of plants with emphasis on the study of the cause, effect, and control of economically important diseases. Includes the study of the taxonomy and morphology of fungi. Laboratory: three hours each week. Enrolment will be limited to 15 students.

Prerequisite: Biology 11, 8 or 58 or equivalent.

## ZOOLOGY

### 5. ANATOMY AND PHYSIOLOGY (5)

This course is for professional nursing and general college students. Included is the study of the structure and function of the skeleton, the muscles, and the organ systems of the human body, correlated by laboratory experience and demonstration. Four lectures and one three-hour laboratory each week.

## Biology

- 15, 16. **GENERAL ZOOLOGY** (4, 4)  
A study of the structure and function of animal organisms. Representative forms of invertebrates and vertebrates of the principal groups of animals are studied and compared. Course 15, prerequisite to Course 16, is offered both semesters. Laboratory: three hours each week.
73. **MAMMALIAN ANATOMY** (2)  
A laboratory course in which a detailed dissection of a large animal is performed to teach the anatomy of the organ systems. Laboratory: six hours each week. Prerequisite: Biology 15 or equivalent.
103. **COMPARATIVE EMBRYOLOGY** (3)  
A study of gametogenesis, fertilization, cleavage, and early development of representative chordates. Laboratory: three hours each week. Prerequisite: Biology 15 or equivalent.
124. **COMPARATIVE ANATOMY** (4)  
A study of the morphology of several representative vertebrates. Laboratory: six hours each week. Prerequisite: Biology 15 or equivalent.
133. **PROTOZOOLOGY** (3)  
Consists of morphological, taxonomic, and life history studies of free-living and parasitic protozoa. Laboratory: three hours each week. Prerequisite: Biology 15 and 16 or equivalent.
135. **ENTOMOLOGY\*** (3)  
The general principles of insect biology and morphology as related to identification and economic significance. Requiring field work and collections designed to acquaint the student with various groups of insects. Laboratory: three hours each week. Transportation charge, \$5.00. Prerequisite: Biology 15 or equivalent.
140. **ORNITHOLOGY** (3)  
Field and laboratory identification of birds with special emphasis on the Pacific States avifauna. Lectures include their taxonomy, life histories, characteristics of songs, migration, habitats, and special modifications. Field and laboratory work combined. Laboratory: three hours each week. Transportation charge, \$5.00. Prerequisites: Biology 15 and 16.
144. **HISTOLOGY\*** (4)  
A descriptive analysis of normal vertebrate tissues and organs, including those of man. The microscopic identification of stained sections is emphasized in the laboratory. Laboratory: six hours each week. Enrollment will be limited to 20 students. Prerequisite: Biology 15 or equivalent.
148. **PARASITOLOGY\*** (4)  
The study of the common parasites of man and domestic animals. Laboratory each week consists of recognition studies of many typical forms. Laboratory: three hours each week. Prerequisite: Biology 15, 16 or equivalent.
- 157, 158. **HUMAN PHYSIOLOGY I AND II** (2, 2)  
A study of the principles of animal function with special attention to processes relating to the metabolism of man. Prerequisites: Biology 11, 15 or 64.
183. **HERPETOLOGY\*** (3)  
Classification, distribution, life habits, and identification of amphibians and reptiles. Laboratory or field trips: three hours each week. Prerequisite: Biology 15, 16. Transportation charge, \$5.00.

## Graduate Courses:

### 219. ADVANCED GENERAL ECOLOGY\*\* (3)

The analysis and interpretation of natural communities and their phenomena. Includes observation and recording of data in the field with emphasis on the desert and grass-woodland communities.

Laboratory: 6 hours on alternate Sundays. Transportation charge, \$10.00.

Prerequisite: Biology 152 or 162.

### 240. CYTOLOGY\*\* (3)

A study of the cell and its constituent parts. Special attention will be given to the chromosomes and their structure, and their behavior in mitosis and meiosis. Their role in the mechanism of heredity will also be considered.

Laboratory: 3 hours per week.

Prerequisite: Biology 154 or equivalent.

## CURRICULUM FOR BIOLOGY MAJOR

(Suggestive only)

### FRESHMAN YEAR

Life and Teachings of Jesus (Religion 1,2)	2	2
Freshman English (English 1-2)	3	3
Intermediate Language (53-54)	3	3
Mathematics (5,6)	3	3
General Zoology (15,16)	4	4
Physical Education (7,8)	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

If the student does not have two secondary units of college entrance credits in the required language, he will need to take in the summer between the freshman and sophomore years, six hours of some other requirement to make room for beginning language during the regular year.

### SOPHOMORE YEAR

Prophetic Interpretation (Religion 71,72)	2	2
American History and Institutions (History 91,92)	3	3
Fundamentals of Speech (5)	3	
General Psychology (5)		3
General Botany (11)	4	
Applied Arts		3
General Chemistry (5-6)	5	5
Physical Education (55,56)	$\frac{1}{2}$	$\frac{1}{2}$
	17 $\frac{1}{2}$	16 $\frac{1}{2}$

### JUNIOR YEAR

History of Western Civilization (History 51 or 52)	3	
Fine Arts		3
Human Physiology (Zoology 157,158)	2	2
Morphology of Plants (108)		3
Organic Chemistry (113-114)	4	4
Physics (51,52)	4	4
Biology Elective (Upper Division)	3	
	16	16

### SENIOR YEAR

Religion (Upper Division)	2	2
Philosophy of Science (General Biology 183)	3	
Biology Elective (Upper Division)	5	3
Literature (Upper Division)		3
Genetics (154)		3
Electives (4 hours Upper Division)	6	5
	16	16

Note: This curriculum meets all requirements for entrance to a school of medicine except four hours of Quantitative Analysis and three hours of Embryology (Chemistry 51, Biology 103 at La Sierra College). These courses may be taken in summer school or as electives.

## Building Construction

### BUILDING CONSTRUCTION

H. R. EMMERSON

The building construction classes are intended to train professional builders and capable craftsmen. For the general college student the aim is to provide an understanding of building problems in the social state. Certain groups who do not plan to become technical specialists will get from prescribed classes orientation sufficient for committee memberships and tentative planning.

*Major Requirements:* 36 hours, of which a minimum of 18 must be in the upper division.

*Cognate Requirements:* Mathematics 5, 6; Physics 51, 52; Economics 51-52, Business Administration 55, 56.

*Minor Requirements:* 20 hours, of which a minimum of 6 must be in the upper division.

#### 11-12. CARPENTRY\* (3-3)

This class works on a house or other building during the school year. Each student is given opportunity to become familiar with details of construction through actual practice. Textbook and lecture work precede each building operation. Intensive study of house plans. One hour class period and six hours laboratory work each week.

#### 35. WOODWORK (3)

A beginning course in the properties of wood, joints used in woodwork, use and sharpening of tools, design and construction of small pieces of furniture. One hour recitation and six hours of laboratory work each week.

#### 41. TECHNICAL DRAWING (2)

Orthographic projection, lettering, care and use of instruments; sections and auxiliary views, pictorial presentation, dimensioning; pencil and ink tracings; projection principles. Application to practical problems with emphasis on visualization and analysis. One hour lecture and three hours laboratory work each week.

#### 42. TECHNICAL DRAWING (DESCRIPTIVE GEOMETRY) (2)

Fundamental principles of descriptive geometry. Graphical representation of lines, surfaces, and solids. One hour lecture and three hours laboratory each week. Prerequisite: Building Construction 41.

#### 51. WOOD LATHE (2)

Spindle, face plate, and chuck turning; metal spinning and pattern making.

#### 57, 58. FURNITURE CONSTRUCTION AND CABINET MAKING (2 or 3, 2 or 3)

A study of the processes, tools, machines, and materials used in the woodworking field. Each student works on a project of his own, selected in counsel with the instructor. One hour class work and three or six hours laboratory work each week. Not less than two hours credit in any one semester.

Prerequisite: Building Construction 35, High school or Academy Woodwork, or equivalent experience.

## Building Construction

- 63, 64. **HOUSE PLANNING AND STRUCTURE (2,2)\***  
A study of the principles of house planning and room arrangement, with emphasis on both function and appearance. Properties and uses of the materials of house construction are also studied. The student is expected to draw complete house plans during the course. One hour lecture and three hours laboratory each week.
71. **SURVEYING (3)**  
Theory and practice of plane surveying; measurement of distances; use and adjustment of transit and level; systematic methods of notes and computations; measurement of angles; leveling contours; land surveying; mapping.  
Prerequisites: Mathematics 5,6.
83. **STATICS\* (3)**  
Statics; analytical and graphical solutions; composition and resolution of forces; stresses in simple frames.  
Prerequisites: Building Construction 41, 42; Mathematics 5,6.
86. **STRENGTH OF MATERIALS\* (3)**  
Stress deformation relationships; behavior of materials under stress; theories of failure.  
Prerequisite: Building Construction 83.
- 107, 108. **STRUCTURAL DRAFTING (2, 2)**  
Structural details, freehand sketching, shades and shadows, working drawings, blueprinting, mechanical perspective. Complete original drawings of quality sufficient to permit use in erection of buildings are required in the second semester. Six hours laboratory each week.  
Prerequisites: Building Construction 41, 42.
129. **MECHANICAL EQUIPMENT OF BUILDING\* (3)**  
A study of mechanical, electrical, and plumbing installations in relation to the building; rules, regulations, and codes.  
Prerequisites: Buildings Construction 11-12.
135. **CONTRACTS AND SPECIFICATIONS\* (2)**  
Laws relating to building; contracts; specifications.  
Prerequisite: Business 55, 56.
146. **ESTIMATING BUILDING COSTS (3)\***  
A study of the methods of estimating construction costs in the modern building field. For majors and minors in building construction.
171. **STRUCTURAL DESIGN IN STEEL AND WOOD\* (3)**  
Wood framing; joints and connections; design and computations required for wood trusses, floor systems, beams, girders, and columns. Design of simple steel structures; beams, columns, roof trusses, bents; rivets, tension and compression members.  
Prerequisite or simultaneous registration: Building Construction 83, 84.
172. **REINFORCED CONCRETE DESIGN (3)\***  
Design of concrete mixtures; forms; working stresses; posts, beams, slabs, T-beams; continuous frames.  
Prerequisite: Building Construction 83, 84.
- 183, 184. **ARCHITECTURAL DESIGN (3, 3)**  
The appearance of a building in relation to its setting; structural considerations in planning buildings; economic factors; relation of material to design; provision for equipment; churches, schools, hospitals, mission buildings. One hour lecture and six hours laboratory each week.  
Prerequisite: Building Construction 107, 108.

## Building Construction

### CURRICULUM FOR BUILDING CONSTRUCTION MAJOR (B.S.)

(Suggestive only)

#### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History	3	3
Freshman English (English 1-2)	3	3
Introductory Mathematics (Mathematics 5, 6)	3	3
Psychology (5)	3	
General Education Basic Science (Science 64)		4
Technical Drawing (Building Construction 41)	2	
Descriptive Geometry (Building Construction 42)		2
Physical Education (7, 8)	$\frac{1}{2}$	$\frac{1}{2}$
	16½	17½

#### SOPHOMORE YEAR

Religion	2	2
Principles of Accounting (Business Adm. 55, 56)	3	3
Physics	4	4
Statics (Building Construction 83)	3	
Strength of Materials (Building Construction 86)		3
Speech	2	2
Furniture Construction (Building Construction 57, 58)	2	2
Physical Education (55, 56)	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

#### JUNIOR YEAR

History	3	3
Economics	3	3
Surveying (Building Construction 71)		3
Structural Drafting (Building Construction 107, 108)	2	2
Mechanical Equipment of Buildings (Bld. Constr. 129)	3	
Contracts and Specifications (Building Constr. 135)		2
Health Principles (Health 59)	2	
House Planning (Building Construction 63, 64)	2	2
Electives	2	2
	17	17

#### SENIOR YEAR

Religion	2	2
Literature	2	2
Structural Design in Steel and Wood (Bld. Constr. 171)	3	
Reinforced Concrete Design (Building Constr. 172)		3
Architectural Design (Building Construction 183, 184)	3	3
Electives	6	6
	16	16

## BUSINESS ADMINISTRATION

R. L. KOORENNY (head), RICHARD C. LARSON

The objective of the Business Administration Department is to prepare students for competent business service in denominational, commercial, and government employment, and to instill a high degree of moral responsibility as an aid to proper relationships with employing organizations, the church, and the community.

*Business Administration Major Requirements:* 32 hours, of which a minimum of 18 hours must be in the upper division. Required courses in Business Administration: Business Administration 29; 55, 56; 75, 76; 151; 141, 142. Required cognate courses: Economics 51-52; 123; three elective hours of economics; Speech, three hours; Secretarial Science 53, and 3 or equivalent.

Recommended: Mathematics 81, Automatic Digital Computers.

*Accounting Major Requirements:* 36 hours, of which a minimum of 20 hours must be in the upper division. Required courses in Business Administration: Business Administration 29; 55, 56; 75, 76; 141, 142; 15 hours of upper division accounting courses. Required cognate courses: Economics 51-52; 123; three elective hours of economics; Speech, three hours; Secretarial Science 53, and 3 or equivalent.

Recommended: Mathematics 81, Automatic Digital Computers.

*Minor Requirements:* 18 hours, of which a minimum of 6 must be in the upper division.

For a listing and description of Economics courses see Social Science section: Economics.

## ACCOUNTING

### 55, 56. PRINCIPLES OF ACCOUNTING (3, 3)

The fundamental principles of modern account keeping. Accounting for proprietorships, partnerships, and corporations. Business transactions and accounting techniques are studied in text material, classroom discussion, and laboratory practice. Two hours lecture and three hours laboratory each week. First semester prerequisite to second.

### 75, 76. INTERMEDIATE ACCOUNTING (3, 3)

A study of the problems of valuation as related to assets, liabilities, and proprietorships. Accounting implications of corporate organization, including preparation and analysis of accounting statements. First semester prerequisite to second. Prerequisite: Business Administration 55, 56.

### 112. FEDERAL INCOME TAX ACCOUNTING\* (3)

A study of the provisions of federal income tax laws and regulations affecting the determination of net taxable income, including the preparation of tax returns for individuals, partnerships, and corporations. Prerequisite: Business Administration 55, 56.

## Business Administration

### 124. FUND ACCOUNTING\* (3)

A study of the accounting principles and methods applicable to fund accounting as demonstrated in state and local governments and other public institutions. Prerequisite: Business Administration 55, 56.

### 131. COST ACCOUNTING\* (3)

A study of process and job order cost accounting, with some attention to standard and distribution costs. Prerequisite: Business Administration 55, 56.

### 151. ACCOUNTING SYSTEMS\* (2)

The study of various accounting systems; methods of organizing accounting operations; includes a study of the organization of denominational finance and administration. Prerequisite: Business Administration 75, 76.

### 162. AUDITING THEORY AND PRACTICE (3)

Procedures and practices followed by the public accountant in verification of accounts and records. The preparation of audit working papers and audit reports. Prerequisite: Business Administration 75, 76.

### 173. CURRENT ACCOUNTING THEORY\* (3)

The study and evaluation of accounting concepts and standards found in current accounting literature. Prerequisite: Business Administration 75.

### 184, 185. ADVANCED ACCOUNTING (2,2)

Intensive study of partnerships, consignments, branches and agencies, consolidations, and fiduciary accounting. Prerequisite: Business Administration 75, 76.

## GENERAL BUSINESS

### 29. INTRODUCTION TO BUSINESS AND MANAGEMENT (3)

An introductory course designed to acquaint the student with the role of business in the American economy. Special emphasis is placed upon managerial functions and the decision-making process.

### 121. PERSONNEL MANAGEMENT\* (3)

A survey of the principles and practices involved in administering personnel programs; includes case problems and individual research.

### 141. BUSINESS LAW I\*\* (3)

Introduction to the law of business consisting of the meaning and administration of law, and a study of torts, contracts, and governmental regulation. Specific cases are used in addition to textual material.

### 142. BUSINESS LAW II\*\* (3)

A continuation of Business Law I. Study of text, cases, and statutes in specific types of business contracts. Prerequisite: Business Administration 141.

### 161. BUSINESS COMMUNICATIONS\* (3)

(See Secretarial Science 161.)

### 164. OFFICE MANAGEMENT (3)

(See Secretarial Science 164.)

### 171-172. PRINCIPLES OF MARKETING (2-2)

A survey of the institutions, functions, policies, and economics in the distribution of goods from producers to consumers; relation of the Government to marketing.

## Business Administration

### 175. PRINCIPLES OF ADVERTISING (3)

The psychology, mechanics and art of advertising; product and market research as the planning phase of an advertising program; coordination with other types of selling effort; economic, social, and legal aspects of advertising.

### 182. BUSINESS FINANCE\* (3)

Financial problems of business organization; launching of an enterprise; source of capital; principles of borrowing; relation of finance to the business cycle; distribution of earnings; reorganization.

Prerequisite: Business Administration 55, 56.

## CURRICULUM FOR MAJOR IN BUSINESS ADMINISTRATION (B.S.)

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Introduction to Business and Management (Business Administration 29) . . . . .	3	
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
American History and Institutions (History 91, 92) . . . . .	3	3
Typewriting (Secretarial Science 3 or 9) . . . . .	1-2	1-2
Speech (Speech 5) . . . . .		3
General Education Basic Science (Science 63, 64) . . . . .	4	4
Physical Education (7, 8) . . . . .	½	½
	16½	16½

### SOPHOMORE YEAR

Principles of Accounting (Bus. Admin. 55, 56) . . . . .	3	3
Religion (71, 72) . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Principles of Economics (Economics 51-52) . . . . .	3	3
Health Principles (Health 59) . . . . .	2	
Business Machines (Secretarial Science 53) . . . . .		2
Literature . . . . .	3	
Applied Arts . . . . .		3
Physical Education (55, 56) . . . . .	½	½
	16½	16½

### JUNIOR YEAR

Intermediate Accounting (Bus. Admin. 75, 76) . . . . .	3	3
Business Law I and II (Bus. Admin. 141, 142) . . . . .	3	3
Religion . . . . .	2	2
Money, Banking, and Credit (Economics 123) . . . . .	3	
Electives in Business Administration . . . . .	3	3
General Electives . . . . .	2	5
	16	16

### SENIOR YEAR

Accounting Systems (Bus. Admin. 151) . . . . .		2
Electives in Business Administration . . . . .	3	3
Electives in Economics . . . . .	3	
General Electives . . . . .	10	11
	16	16

# Accounting

## CURRICULUM FOR MAJOR IN ACCOUNTING (B.S.)

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Introduction to Business and Management (Business Administration 29) . . . . .	3	
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
American History and Institutions (History 91, 92) . . . . .	3	3
Speech (Speech 5) . . . . .		3
General Education Basic Science (Science 63, 64) . . . . .	4	4
Typewriting (Secretarial Science 3 or 9) . . . . .	1-2	1-2
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### SOPHOMORE YEAR

Principles of Accounting (Bus. Admin. 55, 56) . . . . .	3	3
Religion (71, 72) . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Principles of Economics (Economics 51-52) . . . . .	3	3
Health Principles (Health 59) . . . . .	2	
Business Machines (Secretarial Science 53) . . . . .		2
Literature . . . . .	3	
Applied Arts . . . . .		3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### JUNIOR YEAR

Intermediate Accounting (Bus. Admin. 75, 76) . . . . .	3	3
Business Law I and II (Bus. Admin. 141, 142) . . . . .	3	3
Religion . . . . .	2	2
Money, Banking, and Credit (Economics 123) . . . . .	3	
Electives in Accounting . . . . .	3	4
General Electives . . . . .	2	4
	16	16

### SENIOR YEAR

Electives in Accounting . . . . .	4	4
Elective in Economics . . . . .	3	
General Electives . . . . .	9	12
	16	16

## CHEMISTRY

L. W. BOTIMER (head), LUELLA KRETSCHMAR, H. R. SHELDEN

In harmony with, and in the spirit of, the aims and objectives of the College, the Chemistry Department seeks to equip its pupils for participation in the fields of chemistry, chemical engineering, the health sciences, the teaching of chemistry, and the pursuing of graduate work.

*Major Requirements:* The chemistry major must meet the general college requirements in addition to 24 hours of chemistry in the upper division and the approval of the Department of Chemistry.

*Required courses:* Either a sequence comprised of Chemistry 5-6, 51, 115-116, 155-156, and 198, 199, or an alternate sequence of Chemistry 7-8, 115-116, 155-156, and 198, 199.

*Cognate requirements:* Mathematics 71, 72; Physics 51, 52 or 61, 62.

*Recommended:* Biology 15, 16 or 11 and 15; Physics 151, 152; German, or French.

*Minor Requirements:* 24 hours. *Required courses:* Either a sequence of Chemistry 5-6, 51, 115-116, or of Chemistry 7-8, and 115-116, and the approval of the head of the department.

Those who desire a Bachelor of Science degree in Chemistry should consult the head of the department for approved adjustment in requirements.

**HONORS STUDIES IN CHEMISTRY.** Consult this BULLETIN for a description of the Honors Program at La Sierra College. Honors credit in Chemistry to the extent of 2 or 4 semester hours is available in 199-H.

For Division Major (Science and Mathematics Secondary Teaching Major) see under Professional and Pre-Professional Programs.

### 1-2. INTRODUCTORY CHEMISTRY (3-3)

A beginning course in the practical and theoretical aspects of chemistry. One additional drill period per week will be required for all pupils who are not making a grade of C or above by the end of the first 6 weeks of each semester. Two lectures and one three-hour laboratory period each week.

### 3. ELEMENTS OF CHEMISTRY (4)

This course stresses the basic aspects of inorganic, organic, and bio-chemistry primarily to meet the needs of students in professional nursing. High school chemistry is strongly urged as prerequisite. Three lectures and one three-hour laboratory each week.

## Chemistry

### 5-6. GENERAL CHEMISTRY (5-5)

A standard freshman course in general college chemistry. Stresses the fundamental principles and theories of chemistry with emphasis on practical aspects. A study of Qualitative Analysis using semimicro methods is included in the second semester's work. Three one-hour lectures each week. Laboratory: two three-hour periods each week. Prerequisite: High school chemistry or physics or Chemistry 1. (Credit cannot be earned in both Chemistry 1-2 and 5-6.)

### 7-8. GENERAL CHEMISTRY (5-5)

An advanced freshman course in general college chemistry. Emphasizes the fundamental principles and theories of chemistry from the analytical viewpoint. Communication between student and instructor are freely indulged in at all times, which may take the form of devising experiments to illustrate chemical problems. Three one-hour lectures each week and two three-hour laboratory periods each week. Prerequisite: High school chemistry, physics and suitable score in the aptitude test. (Credit cannot be earned in both Chemistry 5-6 and 7-8.)

### 51. QUANTITATIVE ANALYSIS (4)

Designed to acquaint the student with the theory, methods, and calculations of gravimetric and volumetric analysis. Proficiency in the use of the slide rule will be helpful. Two lectures and two three-hour laboratory periods each week.

Prerequisites: Chemistry 5-6 and Mathematics 5 or equivalent.

### 71. ELEMENTARY ORGANIC CHEMISTRY (4)

A course designed to meet the needs of majors in Home Economics, Agriculture, and other non-chemistry fields. Three one-hour lectures and one three-hour laboratory each week.

Prerequisite: Chemistry 1-2 or 5-6.

### 113-114. ORGANIC CHEMISTRY (4-4)

A systematic study of the fundamental principles and reactions of organic chemistry, with application to the living processes, industry, and society. This course is intended primarily for home economics, dietetics, forestry, and bacteriology majors. It may not apply on the major in chemistry programs. Three one-hour lectures each week. Laboratory: one three-hour period each week.

Prerequisite: Chemistry 5-6 or 7-8. 51 recommended.

### 115-116. ORGANIC CHEMISTRY (5-5)

A systematic development of the fundamental principles of the chemistry of carbon compounds and their reactions. A more comprehensive presentation of the subject than offered in 113-114. Laboratory work is designed to train the student in laboratory techniques of the organic chemist. This course, intended primarily for chemistry and chemical engineering majors, is a basis for teaching and for scientific research. Three one-hour lectures each week. Laboratory: two three-hour periods each week.

Prerequisite: Chemistry 5-6 or 7-8. 51 recommended.

### 130. ADVANCED QUANTITATIVE ANALYSIS\*\* (3)

A continuation of Chemistry 51 emphasizing the principles of physical chemistry which serve as a basis for analytical processes. One hour lecture and two three-hour laboratory periods each week.

Prerequisite: Chemistry 51.

## 132. CHEMICAL MICROSCOPY (3)

A study of the polarizing microscope and its accessories. Micrometric measurements, examination of fibres and study of optical crystallographic properties with applications to chemical analysis. Two lectures and one laboratory each week.

Prerequisites: Approval of instructor.

## 134. BIOCHEMISTRY (4)

Discussion of select topics designed to familiarize the student with the nature of the reactions which take place in living tissues and with the functions of enzymes, vitamins, and hormones in controlling these reactions. The course deals primarily with Biochemistry as it is related to plants and animals. Three one-hour class periods each week. Laboratory: one three-hour period each week.

## 141. ORGANIC SYNTHESIS\*\* (2)

A course designed to help fit the student for research. Study is given to such topics as literature research, distribution, extraction, purification and special techniques. Laboratory work consists of the preparation and purification of a number of typically organic compounds. One lecture and one three-hour laboratory period each week.

Prerequisite: Chemistry 115-116.

## 144. QUALITATIVE ORGANIC ANALYSIS\*\* (2)

A course in the classification and identification of organic compounds and mixtures. One lecture and one three-hour laboratory period each week.

Prerequisite: Chemistry 115-116.

## 155-156. PHYSICAL CHEMISTRY (4-4)

A study of the fundamental physico-chemical concepts and laws. Three one-hour lectures each week. Laboratory: one three-hour period each week.

Prerequisites: Chemistry 5-6 or 7-8. Mathematics 71, 72, Physics 51, 52 or 61, 62.

## 198, 199. PROJECTS AND TOPICS IN CHEMISTRY (1 or 2, 1 or 2)

Individual work in special fields. Open only to seniors.

# Chemistry

## CURRICULUM FOR CHEMISTRY MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
History of Western Civilization (History 51, 52) . . . . .	3	3
Mathematics (5, 6 or 51, 52) . . . . .	3	3
General Chemistry (Chemistry 5-6 or 7-8) . . . . .	5	5
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

Beginning German, 6 hours.

If the student does not have two secondary units of college entrance credits in German, he will need to take, in the summer between the freshman and sophomore years, 6 hours of some other requirement to make room for Beginning German during the regular year.

### SOPHOMORE YEAR

Religion . . . . .	2	2
Intermediate German (German 53-54) . . . . .	3	3
Mathematics (71, 72 or 61, 71, 72) . . . . .	3	5
Quantitative Analysis (Chemistry 51) . . . . .	4	
Biology 15, 16 . . . . .	4	4
Psychology (5) or Sociology (47) . . . . .		3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	17 $\frac{1}{2}$

### JUNIOR YEAR

Applied Arts . . . . .	3	
Organic Chemistry (Chemistry 115-116) . . . . .	5	5
General Physics (Physics 51, 52 or 61, 62) . . . . .	4	4
American History and Institutions (History 91, 92) . . . . .	3	3
Reading German (German 143-144) . . . . .	1	1
Speech . . . . .		2
	16	15

### SENIOR YEAR

Atomic and Nuclear Physics (Physics 151, 152) . . . . .	3	3
Physical Chemistry (Chemistry 155-156) . . . . .	4	4
Biochemistry (Chemistry 134) . . . . .		4
Projects and Topics (Chemistry 199) . . . . .	2	
Literature (Upper Division) . . . . .	2	2
Fine Arts (Upper Division) . . . . .	2	2
Religion (Upper Division) . . . . .	2	2
Health Principles (Health 59) . . . . .	2	
	17	17

Note: This curriculum as outlined above meets all requirements for entrance to a school of medicine except two hours of vertebrate embryology (Zoology 103 at La Sierra College), room for which can be made by summer school enrollment.

## EDUCATION

G. T. SIMPSON (head), STANLEY BULL, MARY GROOME,  
MAURICE HODGEN, JANET JACOBS, MAYBEL JENSEN

The Department of Education has as its major purpose the preparation of teachers for elementary, intermediate, and secondary schools. The following courses provide for a selection by the student who is seeking to fulfill the general requirements for programs in Elementary or Secondary Education leading to the Bachelor's and Master's degrees. (Consult Graduate Study in this BULLETIN.)

La Sierra College is accredited by the California State Board of Education to prepare candidates for the General Elementary Credential.

Psychology 5 is prerequisite to all education courses except Education 61 and 162.

## EDUCATION

61. PRINCIPLES OF EDUCATION (3)  
A survey of the basic principles of education. Offered both semesters.
101. PSYCHOLOGY OF ADOLESCENCE (2)  
(See Psychology 101 for description.)
103. AUDIO-VISUAL METHODS AND MATERIALS (2)  
A course designed to acquaint the student with the various audio-visual materials as they affect learning. Development and analysis of materials of instruction; operation and care of equipment. Laboratory projects included. Offered both semesters.
114. EDUCATIONAL PSYCHOLOGY (3)  
(See Psychology 114 for description.)
121. CHILD GROWTH AND DEVELOPMENT (2)  
(See Psychology 121 for description.)
153. PRINCIPLES OF GUIDANCE (2)  
A course devised to emphasize principles, methods, organizations, and aims in the educational, vocational, health, and civic-ethical-social guidance of students.
155. EDUCATIONAL MEASUREMENTS (3)  
A study of the principles of educational measurement together with the use, evaluation, and interpretation of tests as they pertain to the elementary and secondary grades. Course includes one hour of laboratory experience per week. Offered both semesters.
162. PHILOSOPHY AND HISTORY OF EDUCATION (3)  
The philosophy and history of sacred and secular educational writings. Emphasis is given to the concepts of representative educational thinkers as their philosophy applies to modern educational thought. (Not open to students with credit in Education 61.)

## Education

### 164. EDUCATIONAL SOCIOLOGY (2)

A study of significant sociological data, trends and principles which are applicable to educational policies and practice. Special emphasis is placed on relationships between the school and the community and to social backgrounds where functional education is a factor in social change. Fundamentals of Sociology is recommended to precede.

### 170. THE EXCEPTIONAL CHILD (2)

(See Psychology 170 for description.)

### 173. THE RETARDED CHILD (2)

(See Psychology 173 for description.)

### 174. THE GIFTED CHILD (2)

(See Psychology 174 for description.)

### *Graduate Courses:*

### 201. METHODS AND MATERIALS OF RESEARCH (2)

### 210. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (2)

A systematic examination of the contributions of psychology to educational theory and practice. Learning theory and its implications for human development will be central concerns of the course.

### 226. SOCIAL FOUNDATIONS OF EDUCATION (2)

The study of education as a social institution. The course will organize around such concerns as social change, historic precedents, contemporary, national and world affairs affecting education, forces in policy determination.

### 230. SCHOOL ADMINISTRATION (3)

A study of the general administrative problems applicable to elementary, junior academy, and secondary school. Finance, public relations, guidance, personnel, curriculum development, and the supervision of extracurricular activities.

### 238. CURRICULUM PLANNING (2)

Investigation of the curriculum in the elementary and secondary schools organized around such topics as: selection and organization of materials; evaluation; supervision of curriculum improvement; articulation of elementary and secondary curricula with higher education.

### 263. COUNSELING AND GUIDANCE SEMINAR (2)

Interviewing and counseling methods, use of tests and records in understanding the individual student, the function of teacher, administrator and specialist in the guidance services, organizing and guidance program.

Prerequisite: 153 or equivalent experience.

### 284. SEMINAR IN THE TEACHING OF SCIENCE AND MATHEMATICS (3)

A study of the accepted objectives of science and mathematics as well as a consideration of ways in which these can produce a reasonably integrated program of science and mathematics extending from grades 1 through 14.

### 296. MASTER'S PROJECT (2)

### 298. MASTER'S THESIS (4)

# Elementary Teacher Education

## ELEMENTARY TEACHER EDUCATION

MAYBEL JENSEN (head), FRANCES BROWN, MARY GROOME,  
and supervising teachers

*Major Requirements:* Two curriculums are offered. One curriculum is a concentration in Education of 30 semester hours, and 4 semester hours of psychology in the upper division. The basic requirements are the same as for a Bachelor of Arts degree except as indicated below. The curriculum is divided into four areas: general education, professional courses in the major field of concentration, content courses in the areas of lesser concentration, and additional requirements necessary for an elementary credential. Two lesser areas of concentration of 18 semester hours each are required in teaching fields of which 6 must be in the upper division. Modern language is not required of students who have two units of college entrance credit in one language and select English as an area of lesser concentration. Required courses: Education 55, 56; 61 or 162; 103; 125, 126; 131, 132; 157; 185, 186. Psychology 121; 170. Cognate courses are selected in consultation with the major professor.

The alternate curriculum is an Inter-Divisional content major with electives in subject matter fields beyond the general education requirements in Communicative Arts, Social Studies, Science and Mathematics, Fine Arts and Health. Eighteen semester hours in the upper division are required. (See curriculum outline.) A total of 24 semester hours, upper division, in Education are required: Education 55, 56; 61 or 162; 125, 126; 131, 132; 135; 136; 157; 185, 186. Psychology 121.

*Education Minor Requirements:* 18 hours. Required courses: Education 113; 121; 131 or 132; 135.

### 55, 56. INTRODUCTION TO EDUCATION (1, 1)

An orientation course for future teachers. A study is made of the work of the teacher and the qualifications needed for teaching. Student activities include reading, discussion, observation, participation and evaluation of classroom activities. Required California statutory tests will be given in this course.

### 118. MUSIC IN THE ELEMENTARY SCHOOL (2)

A study of the materials and instructional aids for the teaching of music in the elementary school with attention to elementary choral and instructional (song flutes, rhythm band) work, use of the radio in music class. The development of fundamental skills and appreciations. (See Music 118.) Prerequisite: Music 1 or equivalent.

### 125, 126. ELEMENTARY SCHOOL CURRICULUM AND METHODS (2, 2)

A survey of the work of the elementary school in terms of curriculum organization, materials, and methods. The first semester emphasizes the areas of social studies (Bible, history, geography, and civics), and the second semester emphasizes language, arts (English, spelling and handwriting), health, and science.

## Elementary Teacher Education

### 131, 132. JUNIOR YEAR STUDENT TEACHING (2, 2)

Student teaching under the direction of an approved supervising teacher. Supplemented by conferences with the supervising teacher, and director of teacher education. No grade below a C is acceptable for credit in student teaching. Prerequisite: Satisfactory achievement in the standard school subjects.

### 135. READING IN THE ELEMENTARY SCHOOL (2)

A comprehensive consideration of the methods, materials, and instructional aids for teaching reading in the elementary school. Considerable time is given to children's literature. Daily observation and participation, for a semester, in the Demonstration School provides an opportunity for the analysis of individual and group reading problems.

### 136. ARITHMETIC IN THE ELEMENTARY SCHOOL (2)

A comprehensive consideration of the methods, materials and instructional aids for the teaching of arithmetic in the elementary school. Directed observations is provided in the Demonstration School. The student is required to make a grade of B in subject matter.

### 157. ORGANIZATION AND ADMINISTRATION OF THE AMERICAN SCHOOL (3)

This course acquaints the prospective teacher with techniques in organizing and managing the modern elementary classroom. Attention will be directed to organization, grouping, pupil progress, classroom records, analysis and treatment of behavior problems, ethics, and community relationships.

### 185, 186. SENIOR YEAR STUDENT TEACHING (1 to 10)

Open only to seniors. The completion of at least one semester in residence. Each basic methods course must carry at least a grade of C for admittance to and continuance of student teaching. Long blocks of time for this course are necessary. The work is directed by a supervising teacher and is supplemented by conferences with the supervising teacher, coordinator, and director of teacher education. A total of 12 semester hours is the maximum credit a student should earn in this course and Elementary Education 131, 132.

## Elementary Teacher Education

### CURRICULUM FOR ELEMENTARY EDUCATION (B.S.)

#### EDUCATION MAJOR

(Suggestive only)

#### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Freshman English (English 1-2) . . . . .	3	3
General Psychology (Psychology 5) . . . . .	3	
Applied Arts . . . . .		3
Introduction to Education (Education 55, 56) . . . . .	1	1
Art . . . . .	1	2
Speech (Speech 5, 62) . . . . .	2-3	
Elective . . . . .		2
Physical Education (7E, 8E) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15½-16½	16½

#### SOPHOMORE YEAR

Religion (2, 2) . . . . .	2	2
General Education Basic Science (Science 63, 64) . . . . .	4	4
Principles of Education (Education 61) . . . . .		3
American History and Institutions (History 91, 92) . . . . .	3	3
Elements of Music (Music 1) . . . . .	2	
Literature . . . . .	3	
Elective . . . . .	2	4
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

#### JUNIOR YEAR

Religion . . . . .	2	2
Organization and Admin. of American School (157) . . . . .	3	
Child Growth and Development (Psychology 121) . . . . .	2	
Music in the Elementary School (Music 118) . . . . .		2
Reading in the Elementary School (Education 135) . . . . .	2	
Basic concepts of Arithmetic (Mathematics 101) . . . . .	2	
Arithmetic in the Elementary School (Education 136) . . . . .		2
Elementary School Curriculum and Methods (125, 126) . . . . .	2	2
Junior Year Student Teaching (Education 131, 132) . . . . .	2	2
Lesser Area of Concentration and Elective . . . . .		6
	15	16

#### SENIOR YEAR

The Exceptional Child (Psychology 170) . . . . .	2	
Audio-Visual Methods and Materials (Education 103) . . . . .		2
Senior Year Student Teaching (Education 185, 186) . . . . .	8	
Lesser Area of Concentration and Elective . . . . .	6	14
	16	16

# Elementary Teacher Education

## INTER-DIVISIONAL CONTENT MAJOR FOR ELEMENTARY TEACHERS

### *General Education Requirements*

Religion .....	12	
English and/or Speech .....	12	
History .....	12	
Foreign Language .....	8	
General Education Basic Science .....	8	
General Psychology .....	3	
Fine Arts .....	3	
Applied Arts .....	3	
Health and Physical Education .....	2	63
	—	

### *Professional Education and Advanced Psychology*

Introduction to Education (Education 55, 56) .....	2	
Principles of Education (Education 61) .....	3	
Organization and Administration of the American School (Education 157) .....	3	
Curriculum and Methods (Education 125, 126) .....	4	
Reading in the Elementary School (Education 135) ....	2	
Arithmetic in the Elementary School (Education 136)	2	
Senior Year Student Teaching (Education 185, 186)	8	
Electives in Education .....	3	
Child Growth and Development (Psychology 121) ....	2	29
	—	

### *Electives in Content Areas (Beyond General Education) 18 hours U.D.*

Communicative Arts .....	4	
Social Studies .....	4	
Science and Mathematics .....	8	
Additional in one of the above three areas .....	6	
Fine Arts .....	9	
Health and Physical Education .....	4	35
	—	

This program develops a solid foundation of 16 hours in each of two of the areas of Communicative Arts, Social Studies, and Science and Mathematics and 22 hours in the remaining one. In keeping with the growing trend to require a fifth year prior to State certification of elementary teachers, this program is especially suitable as a foundation for the various master's programs being offered by La Sierra College. While working on the master's degree, the elementary teacher can raise one or more of these areas to an even greater degree of competence and at the same time have opportunities to take desirable cognates and professional courses that are not possible in a four-year program.

## Secondary Teacher Education

### SECONDARY TEACHER EDUCATION

G. T. SIMPSON (head), STANLEY BULL, MAURICE HODGEN,  
and Supervising Teachers

*Minor Requirements:* 22 hours, of which a minimum of 18 must be in the upper division. In electing courses for a minor in Secondary Education, the student is expected to meet the professional requirements of the state or organization in which he expects certification. This generally includes a minimum of 18 hours in professional education. Four hours of directed teaching are required. (Six hours of directed teaching in a public high school are required for a California State Credential.) Required for the minor: courses 61, 103, 153, 155, 165, 181, and 190. Recommended courses 114, 164 and Psychology 54, 107. Speech 111 is suggested as a cognate.

120. MUSIC IN THE SECONDARY SCHOOL (2)  
(See Music Education 120.)

165. PRINCIPLES AND METHODS OF SECONDARY TEACHING (3)  
A consideration of the organization, development, objectives, learning activities, evaluation methods, and instructional procedures of the secondary school. Offered both semesters when required.

181. PROCEDURES AND MATERIALS FOR SECONDARY TEACHING (2)  
(See description of courses 181 as offered in individual departments.)

189. WIND INSTRUMENT MATERIALS AND TECHNIQUES (2)  
(See Music Education 189.)

190. DIRECTED TEACHING IN THE SECONDARY SCHOOL (2 or 3, 2 or 3)  
A course in which the student teacher observes, participates in class activities, makes lesson plans, and teaches under the supervision of the secondary school supervisor and with the counsel of the head of the college Department of Secondary Education. The student must be recommended by both his major (or minor) professor and the director of teacher education when making application to the Teacher Education Council for validation of his registration in this course. Prerequisites: At least 12 hours of professional education, including Secondary Education 165, 181, and completion of at least one semester in residence.

191. VOICE MATERIALS AND TECHNIQUES (2)  
(See Music Education 191.)

193. PIANO MATERIALS AND TECHNIQUES (2)  
(See Music Education 193.)

195. VIOLIN MATERIALS AND TECHNIQUES (2)  
(See Music Education 195.)

## English

### ENGLISH

T. A. LITTLE (head), LILLIAN BEATTY, NANCY BULL,  
HELEN LITTLE, LAWRENCE MOBLEY

The English Department aims to equip the general college student with (a) information and spirit for the profitable enjoyment of literary art and history and (b) efficiency in organizing his thoughts into effective compositions. Additional aims for the English major are scholarship in literature and composition adequate to teaching, and preparation for graduate study in English.

*Major Requirements:* Thirty hours in addition to English 1-2, with a minimum of 24 in the upper division. Prescribed courses: English 61, 62; 105-106; 151, 152; 155-156; 190; and 197-198. 105-106 may be waived by credit in Journalism 55-56 or its equivalent, though only two of the hours of Journalism may apply as English. A related requirement, in addition to the General Education history requirement, is a full-year course in British Civilization (107-108).

*Minor Requirements:* 18 hours in addition to English 1-2, with a minimum of 8 in the upper division. Prescribed courses: English 51, 52 (or 151, 152); 61, 62; and 105-106. 105-106 may be waived by credit in Journalism 55-56 or its equivalent, though only two of the hours in Journalism may apply as English. History 107, 108 is recommended.

**HONORS STUDIES IN ENGLISH.** Consult Studies for Honors for a description of the Honors Program at La Sierra College. Honors credit in English to the extent of 1 or 2 semester hours is available in each of these courses: 151-H, 152-H, 156-H, 160-H, 165-H, 168-H, 170-H, 174-H, 183-H, 184-H, 190-H.

**EF. ENGLISH FOR FOREIGNERS (0)**

A non-credit class for those who need accelerated drill in the basic structure and idiom of English.

**OA. FUNCTIONAL GRAMMAR AND LANGUAGE ELEMENTS (0)**

A concentrated non-credit review course prerequisite to English 1-2 for all students who do not pass the English Placement Test.

Fee: \$20.

**1-2. FRESHMAN ENGLISH (3-3)**

A beginning course in college English, stressing assignments in diction, sentence structure, paragraph writing, and compositional organization. Blended with the serious writing is an introduction to literature, with particular attention to literary types and their ways of gaining effectiveness. English 1-2 is prerequisite to any other course in English.

**51, 52. AMERICAN LITERATURE (2, 2)**

A study of the more important aspects of the history of American literature and of the typical work of the significant authors from the seventeenth century to about 1900.

**61, 62. ENGLISH LITERATURE SURVEY (3, 3)**

An outline study of the history of English literature and of the more significant works from *Beowulf* to the present.

105-106. ADVANCED COMPOSITION (2-2)

Advanced study of the principles of effective composition; practice in creative writing by types.

110. SURVEY OF LINGUISTICS AND GRAMMAR (2)

Divided between the history of the language and a study of current grammar. Not for those who need a course in basic grammar. Not applicable on the literature requirement for the Bachelor's degree. German 110 may be substituted for this course.

113, 114. WESTERN WORLD LITERATURE (2, 2)

Reading and study of selected literary monuments of Western culture. The second semester carries no credit to English majors or minors or to others who have credit in English 62.

116. TWENTIETH CENTURY LITERATURE (2)

A study of distinctive literature since 1900, with particular attention to works that reveal the taste and temper of the time.

151, 152. AMERICAN LITERARY MASTERS (2, 2)

Extensive study of selected major writers significant in American literary history. (Students who have had other courses in literature and are well prepared in American history are eligible for this course.) No credit to those with credit in English 51, 52.

155-156. OLD AND MIDDLE ENGLISH\* (3-3)

The Old English is studied in translation. The Middle English, mostly Chaucer's works, is studied in the original.

160. MILTON (3)

The works of John Milton, all of the poetry and the more significant prose, studied in the light of the historical and literary setting.

161, 162. LITERATURE OF THE ENGLISH RENAISSANCE\* (2, 2)

The first semester is devoted to the great non-dramatic poetry from 1550 to 1650. The second semester has to do with prose. Prerequisite: English 61.

164. LITERATURE OF NEO-CLASSICISM\* (3)

A study and evaluation of the works of the leading writers in the Neo-Classic tradition. Prerequisite: English 61.

165. THE ROMANTIC POETS (3)

This course traces the Romantic ascendancy through the dominant works of the leading pre-Romantic and Romantic poets in the approximate century 1730-1830. Prerequisite: English 62.

168. THE VICTORIAN POETS (3)

A study of the works of Victorian poets from Tennyson to Hardy as a reflection of the ideals and temper of the period 1830-1900.

## English

### 170. THE ENGLISH BIBLE AS LITERATURE (3)

A study of the Bible as literary art among the world's supreme masterpieces. This course applies on the English major or minor but not on the first four hours of the general literature requirement for the Bachelor's degree.

Prerequisite: One semester of English or American literature.

### 174. NINETEENTH CENTURY PROSE\* (2)

A study of the leading social-philosophic and literary prose of the nineteenth century in order to understand and evaluate the main cultural and intellectual developments of the time.

### 181. PROCEDURES AND MATERIALS IN LANGUAGE ARTS AND LITERATURE (2)

A course for those preparing to teach the language arts in secondary schools. Objectives, methods, materials, and problems are considered. Prerequisite: Secondary Education 165. May be taken concurrently.

### 183, 184. DRAMATIC LITERATURE (3, 3)

A carefully selected sequence of dramatic classics from Aeschylus to Ibsen, studied to reveal their literary values and cultural attitudes. More than half the time is given to Shakespeare.

### 190. LITERARY CRITICISM (3)

A brief survey of the major literary criticism from Aristotle to the relatively recent past; also a study of general current criteria in evaluating literary works.

Prerequisite: Literature major or minor status.

### 197-198. ENGLISH MAJOR CONFERENCE (1-1)

An integrating group study required of English majors in the senior year and recommended to minors. Only majors and minors in the department are admitted.

#### *Graduate Courses:*

### 207, 208. THE NEW ENGLAND GROUP (2, 2)

The social, esthetic, and moral ferment from 1830 to 1890 as revealed by the works of Emerson, Longfellow, Lowell, Whittier, and their chief contemporaries.

Prerequisite: Undergraduate preparation in American literature and American history.

### 210. WILLIAM DEAN HOWELLS AND HENRY JAMES (3)

### 211. MARK TWAIN (2)

### 212. HERMAN MELVILLE (2)

NOTE: Graduate students may also take for graduate credit, provided they have the specific prerequisites, Courses 160; 161, 162; 174; 190. In all of such instances there will be supplementary reading, exploration, and conferences with the teachers.

## CURRICULUM FOR ENGLISH MAJOR

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Freshman English (English 1-2) . . . . .	3	3
Beginning Language (French or German recommended) . . . . .	3	3
(Not required of those who present two units of college entrance in the chosen language.)		
General Psychology (5) . . . . .	3	
Applied Arts . . . . .	2	2
Elective . . . . .		3
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### SOPHOMORE YEAR

English Literature Survey (English 61, 62) . . . . .	3	3
Religion . . . . .	2	2
General Education Basic Science (Science 63, 64) . . . . .	5	5
American History and Institutions (History 91, 92) . . . . .	3	3
Intermediate Language . . . . .	3	3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### JUNIOR YEAR

American Literary Masters (English 151, 152) . . . . .	2	2
Journalism 55-56 or Advanced Composition 105-106 . . . . .	2	2
Upper Division English . . . . .	3-6	3-6
(Old and Middle English, a prescribed subject, and some other upper division classes are offered only in alternate years; juniors should note preferred subjects and anticipate the year of their availability.)		
Speech . . . . .		3
Health Principles (Health 59) . . . . .	2	
British Civilization (History 107, 108) . . . . .	2	2
(Offered only in alternate years; juniors may anti- cipate this as a senior subject when it is not available in their junior year.)		
Language (143-144 recommended) . . . . .	1	1
Elective . . . . .	2	2
	14-17	15-18

### SENIOR YEAR

English Major Conference (English 197-198) . . . . .	1	1
Fine Arts . . . . .	2	2
Literary Criticism (English 190) . . . . .		3
Upper Division English . . . . .	6	3
Upper Division Religion . . . . .	2	2
Electives . . . . .	5	5
	16	16

## German

### GERMAN

KALJO S. MAGI

The objectives of this department are to equip the major with the necessary tools to enter professions requiring foreign language and to prepare him for graduate study. The aim is to develop the student's ability to reason inductively, to give him a deeper insight into his mother tongue, to arouse in him an awareness and appreciation of his cultural heritage, and to stimulate his interest in the foreign mission program of the church.

In fulfilling his language requirements, the student should be aware that a reading knowledge of either French or German will be required of him on Master's degree work, and quite probably both French and German on a Ph.D. program.

Before enrolling in a modern language course numbered 100 or above, a student must have completed 12 to 14 hours, or the equivalent, of one language. Education 181 and 190 are recommended for students planning to teach a language. Consult the chairman of the Education Department regarding requirements for teacher certification.

*Major Requirements:* 30 hours in addition to German 3-4 or the equivalent, of which a minimum of 24 hours must be in the upper division. These must include 107, 108, 110. Required cognates: English 61, 62 or 113, 114; Speech 71, 121.

*Minor Requirements:* 18 hours above the beginning course, or its equivalent, of which a minimum of 9 hours must be in the upper division, including 107. This requirement may be reduced to 15 hours if a student has 2 secondary units or the equivalent in a language other than German.

#### 3-4. BEGINNING GERMAN (3-3)

A study of the fundamentals of grammar, drills in verbs and pronunciation, reading of simple prose. Laboratory time required, two one-hour periods a week.

#### 53-54. INTERMEDIATE GERMAN (3-3)

A review of grammar with special emphasis on idioms; reading of German prose to furnish a background of life, culture, and geographical aspects of Germany.

Prerequisite: German 3-4 or equivalent.

#### 105. SCIENTIFIC GERMAN (2)

A course especially intended for students who plan to enter the field of science or medicine. A grammatical analysis from the standpoint of peculiarities of scientific German. Readings to acquaint the student of science or medicine with vocabulary, style, and subject matter in his field.

## 107. GERMAN CONVERSATION\* (2)

Intensive practice in German pronunciation; stresses fluent and correct use of vernacular conversation based upon everyday life and events.

## 108. GERMAN COMPOSITION (2)

A brief review of grammar; practice in writing compositions of various types.

## 110. PRINCIPLES OF LINGUISTIC SCIENCE\* (2)

A comparative historical and descriptive study of languages and language families of Europe. Intended either for prospective teachers of languages or for those who are interested in the relationship and development of linguistic systems. (Offered for all students of modern languages, including English.)

## 135, 136. OUTLINE HISTORY OF GERMAN LITERATURE\* (3, 3)

A study of the main currents of German literature from its beginnings to 1900. Readings, based on a German text, include selections of the works of representative authors of the periods studied.

## 141. ROMANTICISM (2)

A study of German Romanticism — and its chief exponents.

## 142. CLASSICISM (2)

A selective study of the works of Goethe, Schiller, Lessing, and their contemporaries.

## 143-144. READING GERMAN (1-1)

Readings in German in the student's major field, the readings to be chosen in conference with his major professor and the language professor. May be taken during the junior year or senior or both.

## 145. REALISM (2)

A study of German authors during the period of 1830-1890.

## 151, 152. CONTEMPORARY LITERATURE (3, 3)

A study of selected authors since 1900.

## CURRICULUM FOR GERMAN MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Freshman English (English 1-2) . . . . .	3	3
Beginning German (3-4) . . . . .	3	3
(Not required of those who present two units of college entrance in German.)		
General Psychology or Fundamentals of Sociology . . . . .	3	
Health Principles (Health 59) . . . . .		2
Applied Arts . . . . .		3
Elective . . . . .	1	
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15½	16½

### SOPHOMORE YEAR

Religion . . . . .	2	2
American History and Institutions (History 91, 92) . . . . .	3	3
Intermediate German (53-54) . . . . .	3	3
General Education Basic Science (Science 63, 64) . . . . .	4	4
English Literature Survey (61, 62) . . . . .	3	3
The literature requirement may be met also by the course in Western World Literature (English 113, 114) in the student's junior or senior year.		
Electives . . . . .	1	1
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

### JUNIOR YEAR

Upper Division German . . . . .	6	6
(A student in the junior year should take note that many of the upper division German classes are offered only in alternate years, and he should therefore, in consultation with the chairman of the department, arrange his study list accordingly.)		
Religion (171, 172 recommended) . . . . .	2	2
Fine Arts . . . . .	3	
Speech (71, 121) . . . . .	2	2
Electives . . . . .	3	6
	16	16

### SENIOR YEAR

Upper Division German . . . . .	7	5
Electives (English 155-156 recommended) . . . . .	9	11
	16	16

# Health and Physical Education

## HEALTH, PHYSICAL EDUCATION AND RECREATION

WM. J. NAPIER (head), J. W. BIELICKI, BARBARA HARSANY,  
EUGENE NASH

The Department of Health, Physical Education, and Recreation offers every student an opportunity to participate in a program designed to aid in the development of physical efficiency, healthful living, social cooperation, and intelligent use of leisure time.

It is required of all students to complete successfully 4 semester hours of Health and Physical Education. Two hours of the requirement (in health) may be met by (a) Health Principles or (b) Human Physiology I and II or waiver examination. The remaining hours (in physical education) must be met by (a) one semester of swimming, unless the student can pass required swimming test; (b) one semester (men) medical cadet, unless the student can pass the required test; (c) developmental activities, unless student can pass required test; (d) one semester of individual activities; (e) one semester of team activities.

No student may be excused from the required service program. Students who have physical disabilities are assigned to a program of modified activities as prescribed by their physicians.

*Major Requirement:* 10-12 hours of physical education on the lower division level; Health and Physical Education 25, 46; 6-9 hours major activities; Health 59; 24 hours of upper division, including Health and Physical Education 105, 143, 151, 171, 176, 178, 189, and 4 other hours from 141, 142, 161, 162. A total of 36 hours is required for a major in Health and Physical Education.

Cognate requirements: Biology 5, 8 or 58; Home Economics 99 or 186; and a minor in Elementary or Secondary Education, including Education 121. Recommended: General Education Basic Science 63, Home Economics 166; Sociology 74.

Students desiring a large spread of teaching subjects may consult their adviser concerning a Bachelor of Science degree.

*Minor in Recreation:* 20 hours, of which a minimum of 9 must be in the upper division. Required courses: Physical Education 105, 143, 189. Related courses in Art, Music Education, and Applied Arts may apply at the discretion of the chairman.

*Minor in Health and Physical Education:* 20 hours, of which a minimum of 10 must be in the upper division. Required courses: Physical Education 25, 105, 143, 151, 171.

### SERVICE COURSES

#### 7, 8. FRESHMAN PHYSICAL EDUCATION ( $\frac{1}{2}$ , $\frac{1}{2}$ )

Required of all freshmen. A variety of activities taught for physical and recreational values. Separate sections for restricted developmental, elementary physical education, and Medical Cadet activities.

## Health and Physical Education

### 55, 56. SOPHOMORE PHYSICAL EDUCATION ( $\frac{1}{2}$ , $\frac{1}{2}$ )

Same activities as in Physical Education 7, 8. One section is devoted to restricted activity and elementary physical education.

### PROFESSIONAL COURSES

#### 5. ANATOMY AND PHYSIOLOGY (5)

(See Biology section for description of course.)

#### 16. MEDICAL CADET SCIENCE (1)

Study in organization of the medical department and basic fundamentals required of the medical soldier.

#### 25. INTRODUCTION TO HEALTH, PHYSICAL EDUCATION, AND RECREATION (2)

Orientation and evaluation of the student's aptitude and abilities as prospective teachers in health, physical education, and recreation.

#### 27-28. ELEMENTARY GYMNASTICS ( $\frac{1}{2}$ or 1, $\frac{1}{2}$ or 1)

Permission of the instructor must be obtained before enrollment.

#### 37-38. PROFESSIONAL TEAM ACTIVITIES (1-1)

Required and open to all men and women prospective majors or minors in health and physical education. This course is designed to develop skills in a variety of activities suitable for school and recreation programs. 2 - two-hour meetings per week.

#### 46. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2)

An interpretative study of the functions, purposes, and practices at the elementary school level. Curriculum for grades 1-8.

Prerequisite: Physical Education 25, or permission of instructor.

#### 59. HEALTH PRINCIPLES (2)

A study of the principles governing community and personal health and how these principles may be applied successfully to daily living. Special emphasis is placed on denominational standards.

#### 87, 88. INTERMEDIATE GYMNASTICS I (1, 1)

For members of the Gymkhana Troupe only.

#### 97-98. ORGANIZATION AND OFFICIATING IN INTRAMURAL ACTIVITIES (2-2)

Theory and practices of officiating and directing under supervision the recreational and intramural program in various phases of the secondary and college programs. 1 hour lecture and 3 hours laboratory.

#### 105. PRINCIPLES AND HISTORY OF HEALTH AND PHYSICAL EDUCATION (3)

A study of the basic principles, history and contemporary significance of Health and Physical Education. Analysis of educational aims and objectives to determine the role of Health and Physical Education in the school curriculum.

#### 127, 128. INTERMEDIATE GYMNASTICS II (1, 1)

For members of the Gymkhana Troupe only.

#### 132. SAFETY AND PREVENTION OF INJURIES (2)

First aid safety measures, bandaging, and massage for the prevention of injuries. One hour lecture and three hours laboratory each week.

#### 141. TECHNIQUES IN FALL TEAM ACTIVITIES (2)

Class organization, teaching, methods, rules, and skills in the following team activities: soccer, flag-football, basketball, speed-ball, basketball (women). One hour lecture and three hours laboratory each week. Prerequisites: HPE 37 or a proficiency test.

## Health and Physical Education

142. **TECHNIQUES IN SPRING TEAM ACTIVITIES** (2)  
Class organization, teaching methods, rules, and skills; softball, volleyball, track and field (men); softball, volleyball (women). One hour lecture and three hours laboratory each week.  
Prerequisites: HPE 38 or proficiency test.
143. **TECHNIQUES IN AQUATICS** (2)  
The development of skills in swimming, with emphasis on teaching methods. One hour lecture and three hours laboratory each week.
151. **HEALTH EDUCATION** (2)  
A consideration of the teacher's function in the different phases of the school health program: environment, services, and instruction. Sources of material and methods of coordination between home, school, and community are stressed.
- 157, 158. **ADVANCED GYMNASTICS** (1, 1)  
For members of the Gymkhana Troupe only.
161. **TECHNIQUES OF CO-RECREATIONAL ACTIVITIES\*** (2)  
Class organization, teaching methods, rules, and skills in the following activities: skating, badminton, and archery. One hour lecture and three hours laboratory each week.  
Prerequisites: proficiency test or work in the above activities.
162. **TECHNIQUES OF INDIVIDUAL ACTIVITIES\*** (2)  
Class organization teaching methods, rules, and skills in the following activities: golf, tennis, and gymnastics. One hour lecture and three hours laboratory each week.  
Prerequisites: proficiency test or work in the above activities.
166. **TECHNIQUES OF THE ADAPTIVE PROGRAM** (2)  
Class organization, methods, procedure in developmental, preventive, and corrective measures in teaching the individual needs of students in the adaptive physical education class. This includes the physical examination, corrective exercise, follow-up, and evaluation. One hour lecture and three hours laboratory each week.
171. **ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION** (3)  
The organization and administration of the health and physical education program on the elementary and secondary levels.  
Prerequisites: Physical Education 75.
176. **KINESIOLOGY** (3)  
A study of the principles of human motion. Anatomical and mechanical analysis of everyday and physical education activities emphasizing normal physical development.  
Prerequisite: Biology 5.
178. **PHYSIOLOGY OF EXERCISE\*** (3)  
Physiological changes during muscular activity and their significance in the adaptive program.  
Prerequisite: Biology 5.
189. **RECREATIONAL LEADERSHIP\*** (3)  
Principles and organization of community recreation with emphasis on recreational leadership. Attention to crafts, music, social programs and outdoor education in coordination with youth organizations and the Master Guide program.
199. **SPECIAL PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION** (1 to 4)  
Open only to students in the field of education upon permission of the instructor.

# Health and Physical Education

## CURRICULUM FOR HEALTH AND PHYSICAL EDUCATION MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
General Psychology (5) . . . . .	3	
Introduction to Health, Physical Education and Recreation (25) . . . . .	2	
Nutrition (Home Economics 99) . . . . .	2	
Microbiology (Biology 8) . . . . .		3
General Education Basic Science (Science 63) . . . . .		4
Professional Activities . . . . .	1	1
Physical Education (55, 56) (3 sections) . . . . .	1½	1½
Speech . . . . .		3
Electives . . . . .	2	

16½ 17½

### SOPHOMORE YEAR

Religion . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Fine Arts . . . . .		3
Anatomy and Physiology (Biology 5) . . . . .	5	
Health Principles (Health 59) . . . . .		2
Intermediate Language . . . . .	3	3
Physical Education in Elementary School (Education 46) . . . . .		2
Physical Education (55, 56) . . . . .	1½	½
Literature . . . . .	2	2

16½ 17½

### JUNIOR YEAR

American History and Institutions (91, 92) . . . . .	3	3
Child Growth and Development (121) . . . . .	2	
Principles of Secondary Education (165) . . . . .	3	
Philosophy and History of Education (Education 162) . . . . .		3
Language . . . . .		2
Upper division Major requirements & electives . . . . .	6	6
Applied Arts . . . . .		3
Electives . . . . .	3	

17 17

### SENIOR YEAR

Religion . . . . .	2	2
Audio-visual Materials in Instruction (Education 103) . . . . .	2	
Special Methods of Secondary Teaching . . . . .	3	
Observation and Directed Teaching in Secondary School (Education 190) . . . . .		4-6
Upper division Major Requirements and electives . . . . .	6	6
Electives . . . . .	4	3-5

17 17

## HISTORY

W. J. AIREY (head), F. G. HOYT, W. M. LANDEEN,  
M. J. SORENSON

*History Major Requirements:* 32 hours, of which a minimum of 20 hours should be in the upper division (which may be reduced to 15 if the student completes another major or minor); 12 hours of cognate courses are to be selected in consultation with the head of the department. Required courses: History 51, 52 and 91, 92.

*History Minor Requirements:* 18 hours, of which a minimum of 6 must be in the upper division. Required courses: History 51, 52; 91 and/or 92, or equivalent. Only 3 hours of History 141, 142 may apply on a minor.

**HONORS STUDIES IN HISTORY.** Consult Studies for Honors for a description of the Honors Program at La Sierra College. Honors credit in History to the extent of 1 or 2 semester hours is available in each of these courses: 103-H, 104-H, 107-H, 108-H, 109-H, 111-H, 112-H, 125-H, 126-H, 127-H, 152-H, 161-H.

51, 52. HISTORY OF WESTERN CIVILIZATION (3, 3)

A study of the development of western civilization from antiquity to the present. Emphasis is placed on the political, economic, religious, social, and cultural institutions and ideas as they affected man's development.

55, 56. UNITED STATES CONSTITUTION (Constitutional History) (2, 2)  
(See Political Science section for description.)

91, 92. AMERICAN HISTORY AND INSTITUTIONS (3, 3)

The social, cultural, political, and constitutional development of the United States and local government from the period of colonization to the present. This course fulfills the state requirement in American History, Constitution, and California Constitution.

103, 104. HISTORY OF ANTIQUITY (2, 2)

The ancient kingdoms of the Near East, Egypt, Greece, and Rome, particularly as they relate to Bible history.

106. MEDIEVAL EUROPE\* (3)

A study of the developing institutions of early Western Europe from Constantine to the thirteenth century.

107, 108. BRITISH CIVILIZATION (2, 2)

England and the Empire to the present.

109. ENGLISH CONSTITUTIONAL HISTORY\* (3)

Development of the English constitution and growth of English law to 1485.

111, 112. WESTERN AMERICA AND CALIFORNIA (2, 2)

The exploration and settlement of the American West, Statehood and progress in the western United States. The second semester emphasizes California History and government.

125, 126. EUROPE SINCE 1914 (2, 2)

Europe from World War I to the present.

# History

## 128. AMERICAN COLONIAL HISTORY (3)

A study of the institutions, life, thought, imperial control, and inter-colonial relations, leading to the movement for independence of the English colonies in America.

## 141, 142. HISTORY OF THE CHRISTIAN CHURCH (3, 3)

The Christian Church, the Papacy, and the Protestant Churches.

## 151. THE RENAISSANCE (3)

An intensive study of the economic, literary, artistic, and religious developments of the period.

## 152. REFORMATION (3)

The Protestant Reformation to the Peace of Augsburg

## 155. WESTERN EUROPE, 1555-1648 (3)

The era of the Catholic reformation and the religious wars.

## 157, 158. EUROPE, 1789 TO 1914 \* (3, 3)

Europe in revolution and transition, 1789-1914.

## 161. CIVIL WAR AND RECONSTRUCTION \* (3)

The causes for, campaigns of, and results of the Civil War.

## 163, 164. AMERICAN DIPLOMATIC RELATIONS \* (2, 2)

Developments in American diplomatic history from the Revolution to the present, with emphasis on contemporary foreign affairs.

## 165, 166. THE FAR EAST IN WORLD AFFAIRS \* (2)

(See Political Science section for description.)

## 171, 172. HISTORY OF RUSSIA (3, 3)

The history of Russia with emphasis on the modern period.

## 191. READINGS IN AMERICAN OR EUROPEAN HISTORY (1 to 4)

This course is restricted to History majors with a minimum three-point average in their major. Students do special study in fields specified by the instructor. The student is expected to meet the instructor for regular conferences each week.

Prerequisites: Permission of the department.

### *Graduate Courses:*

## 201. STUDIES IN 16TH CENTURY EUROPE (3)

Studies in the intellectual, religious, economic, and political thought of the 16th century.

## 278. SEMINAR IN CIVIL WAR AND RECONSTRUCTION (3)

A graduate seminar in this significant period of American history.

## CURRICULUM FOR HISTORY MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Beginning Language . . . . .	3	3
If a student has two units of foreign language among his college entrance credits and wishes to continue the same language in college, he may substitute intermediate language here or choose other electives.		
History of Western Civilization (History 51, 52) . . . . .	3	3
General Psychology, Sociology, or Geography . . . . .	3	
Health Principles (Health 59) . . . . .		2
Electives . . . . .	2	2
Freshman English (1-2) . . . . .	3	3
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	15 $\frac{1}{2}$

### SOPHOMORE

Intermediate Language . . . . .	3	3
Religion . . . . .	2	2
American History and Institutions (History 91, 92) . . . . .	3	3
Literature or Speech . . . . .	3	3
General Education Basic Science (Science 63, 64) . . . . .	4	4
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

### JUNIOR YEAR

Language . . . . .	1	1
Fine Arts . . . . .	3	
Religion . . . . .	2	2
Applied Arts . . . . .		3
Electives and Cognates . . . . .	6	5
Major Concentration (Upper Division) . . . . .	5	5
	17	16

### SENIOR YEAR

Major Concentration (Upper Division) . . . . .	5	5
Electives . . . . .	11	11
	16	16

Students planning to teach history should minor in education.

## Home Economics

### HOME ECONOMICS

MARY BYERS (head), FONDA CHAFFEE, YVONNE SONNELAND

The achievement of better everyday living in better homes is the major goal of the Home Economics Department. The philosophy of the department is the strong belief that Home Economics has a contribution to make to education in all the basic relationships of life such as personal living, home and family life, social and civic relationship, and vocation and avocational guidance and preparation.

*Major Requirements:* 36 hours, of which a minimum of 18 must be in the upper division.

**GENERAL HOME ECONOMICS:** This curriculum is designed to give training basic for homemaking and for those professions that require a broad understanding of the problems of family living. Required courses: Home Economics 7, 8, 51, 52, 65, 74, 118, 166, 190, 193, 194. Cognate requirements: General Education Basic Science 63, 64; Biology 8. Recommended: General Education Fine Arts 57.

**HOME ECONOMICS TEACHER EDUCATION:** Students choosing this curriculum are required to minor in Secondary Education. It provides training for prospective teachers of Home Economics in secondary schools. Required courses: Home Economics 7, 8, 51, 52, 65, 74, 75, 99, 110, 118, 166, 181, 190, 193, 194, 198. Cognate requirements: General Education Basic Science 63 (or Chemistry 1-2) and General Education Basic Science 64 (or Biology 11 or 15), Biology 8, General Education Fine Arts 57.

**FOODS AND NUTRITION:** Students in this curriculum may qualify for dietetic internships in hospitals and institutions approved by the American Dietetic Association, and prepare for positions as dietitians in hospitals, school cafeterias, or institutional dining rooms. In addition to major requirements here listed, the required courses listed by the American Dietetic Association should be considered. (See Special Curriculum section of this BULLETIN.) Required courses: Home Economics 7, 8, 65, 74, 75, 99, 115, 161, 163, 171, 176, 184, 186, 190, 193, 194. Cognate requirements: Chemistry 1-2 or 5-6; 71, 134; Biology 8 or 58, 157 or 158; Psychology 114; Business Administration 121.

**CLOTHING, TEXTILES, AND RELATED ARTS:** In selecting this field of specialization, the student may prepare for such professional work as teaching, home extension service, purchasing, demonstration, textile research, fabric designing, dressmaking, and many other lines of work in addition to the obvious preparation for homemaking. Required courses: Home Economics 7, 8, 51, 52, 59, 65, 74, 75, 110, 111-112, 151, 152, 190, 193, 194. Cognate requirements: General Education Basic Science 63, 64. Recommended: General Education Fine Arts 57.

## Home Economics

*Minor Requirement:* 18 hours, of which not less than 6 must be in the upper division. Required courses: Home Economics 7, 8, 51 52.

### FOODS AND NUTRITION

7. FUNDAMENTALS OF FOODS AND NUTRITION (3)  
A study of foods and their nutritive values, basic cookery, and marketing. Two class periods with a three-hour laboratory each week.
8. MEAL PLANNING AND SERVICE (3)  
Instruction and laboratory practice in the planning, preparation, and serving of meals. Two class periods with a three-hour laboratory each week.
99. HUMAN NUTRITION (2)  
A study of food nutrients, digestion, metabolism and the nutritional requirements at the various age levels.
- 113, 114. ADVANCED FOODS (3, 3)  
A study of foods from scientific and economic aspects; their selection and preparation; special attention to the more difficult preparation techniques. Experience in food demonstration is included. Especially designed for the advanced major in Home Economics. Two class periods and one three-hour laboratory each week.  
Prerequisites: Home Economics 7 and 8.
115. EXPERIMENTAL FOODS\* (3)  
A study of the effect of various methods of cooking upon the nutritive value, palatability, and economy of food products. Two class periods and one three-hour laboratory each week.  
Prerequisite: Home Economics 7, 113 or 114.
166. CHILD CARE AND TRAINING (3)  
A study of the child through adolescence, covering the principles involved in its care, understanding and guidance. Includes observation of and participation with children in a child-development laboratory.
171. NUTRITION TOPICS (2)  
A course designed to acquaint students with current scientific literature in the field of nutrition.
184. NUTRITION IN DISEASE (3)  
A study of the normal diet with modifications necessary to pathological conditions.  
Prerequisite: Home Economics 99.
186. ADVANCED NUTRITION AND DIETETICS (3)  
An advanced course in the science of nutrition with emphasis on recent developments and their practical application in the feeding of individuals of all ages and economic levels. Laboratory animals are used to demonstrate the efforts of individual dietary deficiencies and their correction. Two class periods and one laboratory each week.  
Prerequisites: Biology 8 or 58, Home Economics 99, Chemistry 134.

### CLOTHING AND TEXTILES

51. BASIC ELEMENTS OF CLOTHING CONSTRUCTION AND SELECTION (3)  
Covering the fundamental techniques of garment construction and with particular emphasis on fitting. This course also aims to establish a foundation in art principles of line, color, texture, etc., as applied in selection or appropriate ensembles for various occasions and figure types.

## Home Economics

52. **ADVANCED ELEMENTS OF CLOTHING CONSTRUCTION AND SELECTION (3)**  
As a continuation of Basic Elements of Clothing Construction and Selection, this course offers greater opportunity to develop skills based upon the fundamentals acquired in the above course. More difficult projects are encouraged, involving intricacies of design, construction, and fabric manipulation; emphasis is laid on alteration of patterns, fitting of garments, and speed techniques in construction of children's clothing. Two class periods with a three-hour laboratory each week.  
Prerequisite: Home Economics 51.
59. **FLAT PATTERN DESIGNING (2)**  
By the use of a basic commercial pattern, the student learns to obtain the desired design in her own pattern. Original designs are encouraged, but are not required. Adaptations from magazines, newspapers, and similar sources of exclusive or original designs produce the required garment. One class and one laboratory period.
110. **TEXTILES (2)**  
A study of textile fibers, the fundamentals of weaving, the identification of textiles, their choice and care. Open to majors and minors only.
- 111-112. **TAILORING (2-2)**  
A study of professional techniques of tailoring and their application to women's garments. One class period and one three-hour laboratory each week.  
Prerequisites: Home Economics 51, 52 or equivalent.
151. **CLOTHING CONSTRUCTION FOR OTHERS (2)**  
This course is planned to permit the student to gain experience in more difficult problems of clothing construction in sewing for others. One class period and one three-hour laboratory each week.  
Prerequisites: Home Economics 51, 52 or approval of instructor.
152. **REMODELING AND ALTERING THE WARDROBE \* (2)**  
Opportunity is given in this course to remodel, alter, and utilize garments in one's wardrobe to the best advantage. One class period and one three-hour laboratory each week.  
Prerequisites: Home Economics 51, 52 or approval of instructor.

## HOME MANAGEMENT

35. **WOODWORK (3)**  
(See Building Construction 35.)
- 63, 64. **HOUSE PLANNING AND STRUCTURE (2, 2)**  
(See Building Construction 63, 64.)
65. **FAMILY HEALTH AND HOME NURSING (2)**  
A study of and experience in home nursing procedures, including care of the baby. Consideration is given to factors conducive to family and community health and safety.
74. **EDUCATION FOR MARRIAGE (2)**  
(See Sociology 74 for description.)
75. **MARRIAGE AND THE FAMILY (2)**  
(See Sociology 75 for description.)
118. **DECORATING AND FURNISHING THE HOME (3)**  
A study of principles governing the selection and arrangement of furniture, fabrics, and accessories appropriate for various types of homes. Includes the application of color and design principles. Two class periods and one laboratory each week.

## Home Economics

190. CONSUMER BUYING FOR THE HOME AND FAMILY (3)  
An analysis of problems as well as aids in purchasing from the point of view of the home, the family, and the individual.
193. MANAGEMENT IN FAMILY LIVING (3)  
The study of the fundamental principles of a Christian home, and an opportunity to learn how to select, arrange, care for, and use household equipment with the skill necessary to teaching others by demonstrating the proper use of such equipment. Two lectures and one laboratory.
194. HOME MANAGEMENT RESIDENCY LABORATORY (3)  
An application of the principles of home management. The student has an opportunity to live in the Home Economics Cottage under guidance of an instructor for six weeks. Two-hour weekly conferences with the instructor will be arranged.  
Prerequisites: Home Economics 7, 8 and 193 (allowed as concurrent registration).

### INSTITUTIONAL MANAGEMENT

11. INTRODUCTORY BAKING (3)  
An introductory course in fundamental principles of healthful institution and commercial baking, both theoretical and practical. One lecture and two laboratory periods each week.
161. INSTITUTIONAL MANAGEMENT (3)  
The study of administrative duties and problems in institutional work, including organization, equipment, personnel, costs, marketing, and service.
163. INSTITUTIONAL PURCHASING \* (3)  
A course dealing with problems of marketing and purchasing foods and supplies in institution quantities. Factors that influence cost and availability are stressed. Three Hours
174. INSTITUTION LAYOUT AND EQUIPMENT\*\* (3)  
A course dealing with plant layout and equipment for foods services in school lunch rooms, cafeterias, and hospitals. Purchasing and flow availability are stressed.
176. QUANTITY COOKERY (3)  
The study of preparation and service of food in large quantity. Laboratory work is done in the college cafeteria and dining room.

### HOME ECONOMICS EDUCATION

181. PROCEDURES AND MATERIALS IN HOME ECONOMICS (3)  
A study of materials and techniques in teaching Home Economics on the secondary level.  
Prerequisite: Education 165.
198. PRINCIPLES OF DEMONSTRATION (2)  
The selection, organization, and presentation of material for professional Home Economics demonstrations.  
Prerequisite: Home Economics 197.
199. PROJECTS IN HOME ECONOMICS (1 to 2)  
Advanced work in special problems for majors. Admission only upon permission of the instructor. Offered either semester.

# Home Economics

## CURRICULUM FOR B.S. IN HOME ECONOMICS

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
Fundamentals of Foods and Nutrition (Home Economics 7) . . . . .	3	
Meal Planning and Service (Home Economics 8) . . . . .		3
Microbiology or Bacteriology (Biology 8 or 58) . . . . .		4
Introduction of Visual Arts (Art 57) . . . . .	3	
Speech . . . . .		3
General Psychology (5) . . . . .	3	
Electives . . . . .	2	
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	15 $\frac{1}{2}$

### SOPHOMORE YEAR

Religion . . . . .	2	2
General Education Basic Science (Science 63) or Chemistry 1-2 (or 5-6) and General Education Basic Science (Science 64) or Biology 11 or 15 . . . . .	3-4	3-4
History . . . . .		3
Family Health and Home Nursing (Home Economics 65) . . . . .	2	
Clothing Construction and Selection (Home Economics 51, 52) . . . . .	3	3
Electives . . . . .	4-5	4
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	16 $\frac{1}{2}$

### JUNIOR YEAR

Religion . . . . .	2	2
Literature . . . . .	3	
Management in Family Living (Home Economics 193) . . . . .	3	
*Electives in Home Economics . . . . .	3	2
History . . . . .	3	3
Electives . . . . .	2	9
	16	16

### SENIOR YEAR

Home Management Residence (Home Economics 194) . . . . .		3
Consumer Buying (Home Economics 190) . . . . .		3
*Electives in Home Economics . . . . .	2	6
Electives . . . . .	14	4
	16	16

\*In consultation with the head of the department the student will choose Home Economics electives to meet the specific requirements of the field elected for major emphasis: General Home Economics, Home Economics Teacher Education, Foods and Nutrition, and Clothing and Textiles.

## JOURNALISM

T. A. LITTLE

*Minor Requirements:* Eighteen hours selected in conference with the advisor, 8 of which must be in the upper division. To qualify for a minor in this field the student must have a broad cultural spread in general college studies, including among his prescribed and elective courses, history, political science, sociology, economics, business, typewriting, and one full year in each of American and English literature. A thorough mastery of English fundamentals is expected of all taking Journalism courses. Printing courses taken for applied art credit or in a trade school (not for B.A. credit) are cognate requirements for a journalism minor, but may be waived by an adequate apprenticeship in the type room of a good printing concern.

## 55-56. NEWS WRITING (2-2)

The writing of news, features, and interviews for the daily press, with practical experience in the use of newspaper style and technique.

## 108. PUBLIC ADDRESS REPORTING (2)

Specialized practice in reporting sermons, speeches, public meetings, and interviews according to good newspaper formulae. Enrolment restricted to those who have demonstrated proficiency in Journalism 55-56.

## 120. PRESS RELATIONS AND PUBLICITY TECHNIQUES\* (2)

Lectures, readings, and directed observation and practice designed to familiarize the student — from the viewpoint of the newspaper as well as of the public relations office — with the problem of desirable reactions to honest and competent publicity.

Prerequisites: Journalism 55-56 and at least one other newspaper theory course, 149 recommended.

## 125-126. COPY-DESK EDITING (1-1)

A practice course for those who have shown competence in 55-56. The work involves laboratory projects in copy-reading, rewriting, headwritng, proofreading, make-up, and feature production.

## 130. HISTORY AND ETHICS OF JOURNALISM\* (2)

History of Journalism from about 1620 down to the present time with parallel attention to the principles that guide the best newspapers.

## 149. NEWSPAPER PROBLEMS\*\* (2)

A study of the policies and practices of the better weekly and small daily newspapers as to news content, editorial, advertising, circulation, costs. Part of the work will be in the form of research or experience in a newspaper plant of the type considered in the course.

## LIBRARY SCIENCE

D. G. HILTS

## 61, 62. INTRODUCTION TO LIBRARY SCIENCE (4)

Designed to help the student in using library facilities and in determining his aptitude for the profession of librarianship. Lessons and projects are prepared on the evolution of the book, the history of libraries, classification, cataloging, bibliography, use of periodicals and reference materials, and the principles of book selection. The course has general value and is open to any college student.

# Mathematics

## MATHEMATICS

H. W. BESEL, L. H. CUSHMAN, D. E. LEE, J. W. RIGGS, JR.

The objectives of this department are: for the liberal arts student to know the place of mathematics in modern culture, for the science student to acquire the basic tools, for the major to become prepared for research or graduate study, and for the prospective teacher to know the necessary content and appreciation of mathematics.

*Major Requirements:* Bachelor of Arts degree required courses: Mathematics 51, 52 or 5, 6, and 61; 71, 72; 141, 142; 151; 161, and electives for a total of 35 hours or more of which 21 must be upper division.

*Bachelor of Science* degree requires a total of 45 semester hours.

*Minor Requirements:* Mathematics 51, 52 or 5, 6, and 61; 71, 72 plus electives for a total of 18 semester hours.

*Required Cognates:* Physics 61, 62 (51, 52 may be substituted for 61, 62 with permission of department chairman); Chemistry 7, 8 or 5, 6; and Language (French, German, or Russian recommended).

*Science and Mathematics Major:* For Division Major (Science and Mathematics Secondary Teaching Major) see under Professional and Pre-Professional Programs.

### A, B. ELEMENTARY MATHEMATICS (2, 2)

A course for those who lack algebra, geometry, or both on the secondary level. This is an integrated presentation of the basic concepts of algebra and geometry. A student lacking either subject should take the first semester; if both are lacking, two semesters are required. (Not counted toward the Bachelor's degree.)

### 5, 6. INTRODUCTORY MATHEMATICS (3, 3)

A course in introductory college algebra and trigonometry for students who plan to take Physics 51 the second year. Students from this course may enter Mathematics 71 the second year if they take Mathematics 61 concurrently with 71. Mathematics 5 is college algebra, and Mathematics 6 is trigonometry.

### 51, 52. COLLEGE MATHEMATICS (3, 3)

A unified course in college algebra, trigonometry, and analytical geometry and introductory calculus for students of Mathematics, Physics, and Chemistry who plan to take calculus the second year. Prerequisite: Three units of high school mathematics excluding general mathematics or by permission of the instructor.

### 61. PLANE ANALYTIC GEOMETRY (2)

A study of planes and curves in two dimensions using both cartesian and polar coordinates.

Prerequisites: Mathematics 5, 6 or advanced algebra and trigonometry in high school.

### 62. SOLID ANALYTIC GEOMETRY (3)

A study of the surfaces and curves in three dimensions, coordinate systems, vectors.

Prerequisites: Mathematics 51, 52; or 5, 6, and 61.

## 71, 72. CALCULUS (3, 5)

A unified course in differential and integral calculus.

Prerequisites: Mathematics 51, 52 (if 5, 6 were taken, then 61 must be taken concurrently with 71) or equivalent.

## 81. AUTOMATIC DIGITAL COMPUTERS (3)

Organization of a digital machine. Numerical aspects with idealized descriptions of electronic elements in the machine. Practice in coding simple problems.

## 101, 102. BASIC CONCEPTS OF ARITHMETIC (2, 2)

A content course in mathematics designed for teachers of the elementary grades. May not be taken for credit on a mathematics major or science and mathematics major.

## 121, 122. NUMERICAL MATHEMATICAL ANALYSIS (2, 2)

Computation with numbers of fixed precision, error analysis, numerical approximations to solutions of equations, approximations with polynomials, numerical differentiation and integration.

Prerequisite: Mathematics 71.

## 131, 132. PROBABILITY AND STATISTICS (2, 2)

Basic laws of probability, discrete and continuous variable problems, laws of large numbers, statistical models.

Prerequisite: Mathematics 71.

## 141, 142. DIFFERENTIAL EQUATIONS (2, 2)

Methods of solutions of ordinary differential equations with applications to Physics, Chemistry, Geometry, and Engineering. Numerical solutions.

Prerequisites: Mathematics 72.

## 151, 152. ADVANCED CALCULUS (3, 3)

Techniques and applications of integrations, solid analytical geometry, infinite series and expansion of functions, partial differentiation, multiple integration with applications, vector analysis, complex variables and Fourier series.

Prerequisite: Mathematics 72.

## 161. MODERN ALGEBRA (3)

Numbers, Fields, Groups, Classes, Rings. Develops the logical bases for the algebras. Includes some Vector and Matrix algebra.

Prerequisite: Mathematics 71 or permission of instructor.

## 162. LINEAR ALGEBRA (3)

Transformations and Invariants, Matrices, Vectors, Systems of linear equations, Theory of equations.

Prerequisite: Mathematics 71 or permission of instructor.

## 171, 172. THEORETICAL MECHANICS (3, 3)

(See Physics Section.)

## 183, 184. INTRODUCTION TO QUANTUM MECHANICS (2, 2)

(See Physics Section.)

## 198, 199. PROJECTS AND TOPICS IN MATHEMATICS (1 to 6)

Selected topics and projects in pure and applied mathematics. May be repeated for credit, for a limited number of hours with permission of the instructor.

Prerequisites: Upper division mathematics major or minor status.

## Music

### MUSIC

H. B. HANNUM (head), PERRY BEACH, FRANCES BROWN,  
MOSES CHALMERS, H. A. CRAW, EDNA FARNSWORTH,  
EUGENE NASH, ALFRED WALTERS

The objectives of this department are to give students an understanding and appreciation of the musical heritage of man; to aid the student in acquiring knowledge, techniques, and skills necessary for performers, composers, teachers, singing evangelists, and church musicians; to provide cultural and artistic activities for leisure time, such as group music experiences and intelligent listening to music.

*Major Requirements:* 40 hours, of which a minimum of 24 must be in the upper division. Requires courses: Theory I 5, 6; Theory II 51, 52; Counterpoint 107, 108; History of Music 111, 112; History of Church Music 113, 114; either Music 197 or 198; 8 hours in *one* field of applied music, including 2 hours upper division. Electives from courses 21, 22; 55, 56; 121, 122; 155, 156; 190; 101, 115, 116; 123, 125, 126; 197, 198; 199.

Specific study programs will be arranged in consultation with the staff. A student majoring in music may apply a maximum of 50 hours in music toward a Bachelor of Arts degree.

*Minor Requirements:* 18 hours, of which a minimum of 6 must be in the upper division. Required courses: Theory I 5, 6; History of Music 111, 112. Six hours are to be selected from the courses listed above under major requirements.

**HONORS STUDIES IN MUSIC.** Consult this BULLETIN, Studies for Honors, for a description of the Honors Program at La Sierra College. Honors credit in Music to the extent of 1 or 2 semester hours is available in each of these courses: 107-H, 108-H, 111-H, 112-H, 115-H, 116-H, 123-H, 125-H, 126-H, 197-H.

### BACHELOR OF MUSIC EDUCATION

The curriculum leading to the degree Bachelor of Music Education is offered for those interested in the field of music teaching. This curriculum gives a student concentration (16 hours) in one field of applied music with supplementary instruction in the remaining fields of applied music. Emphasis is given to the technique and practice of teaching music. A 40-48 hour requirement in general college courses provides a basis for general culture.

#### *Required:*

1. General Education and Basic Completion courses as follows: Religion, 12-14 hours (4 hours upper division); English, 10 hours, including 4 hours literature; History of Western Civilization, 6 hours; Basic Science, 8 hours, Physical Education and Health, 4 hours; Introduction to Visual Arts, 3 hours.

## Music

2. Musicianship (32 hours): Theory I and II, Music Form, Counterpoint, Music Composition, Orchestration, History of Music, Conducting Technique.
3. Applied Music (30 hours): 16 hours in one instrument or voice, including courses 21, 22, 55, 56, 121, 122, 190; 2 hours in voice, 2 hours in piano; Courses 91, 92, 93, 94, 95, 96, organizations and/or ensembles 4-6 hours.
4. A minor in Education, 22 hours, including courses 118, 120, and *one* of the following: 189, 191, 193, 195.

Total course hours, 128, 40 hours of which are to be upper division. All courses in the department except 15, 16 and 1 may be counted toward the Bachelor of Music Education degree.

### GENERAL EDUCATION FINE ARTS

#### 58. INTRODUCTION TO MUSIC (3)

A basic general education course in understanding music and elementary principles of aesthetics underlying all the arts. Required for the B.A. degree.

### APPLIED MUSIC

Private half-hour lessons are given in piano, organ, voice, violin, and orchestral and band instruments. Students may take applied music with or without credits.

College credit in applied music is granted on the following basis:

1. One or two half-hour lessons a week.  
(Students desiring more than one hour of credit per semester must take two half-hour lessons a week. Students taking one half-hour lesson a week are expected to take a minimum of 15 lessons per semester; and those taking two half-hour lessons a week are expected to take a minimum of 30 lessons per semester.)
2. Three to five hours of practice per week for each hour of credit.
3. A passing grade in a satisfactory semester examination.
4. Participation in public recitals as requested by the instructor.

### REGULATIONS ON APPLIED MUSIC

Credit in applied music in excess of four hours must be supplemented by an equal number of hours in Theory or Music History.

The maximum amount of credit in applied music allowed on the Bachelor of Arts degree for non-music majors is 8 hours; for music majors taking the Bachelor of Arts degree, 16 hours.

Students pursuing the Bachelor of Music Education degree must take two lessons a week in their major field of applied music.

Students in applied music must secure the approval of their instructor before performing in public.

## Music

At the semester examinations in applied music, each student must demonstrate sufficient advancement in technique and musicianship to satisfy the examiners. The examination will consist of at least one number from memory and one or two other numbers of a diversified nature together with technical exercises.

Applied music courses may be repeated for credit until the maximum of eight hours is reached. Students must satisfy their teacher and examiners as to the extent of repertoire covered.

Students earning 16 hours in applied music are required to complete the level of attainment of the applied music courses 21, 22 and 55, 56.

Students fulfilling the requirements for the Bachelor of Music Education degree are required to complete the level of attainment of the applied music courses 21, 22; 55, 56; and 121, 122.

Students earning 16 hours in applied music are required to give a recital of acceptable merit in their senior year.

Transfer students majoring in music must take a minimum of 4 hours in applied music (major field) at La Sierra College.

### 15, 16. PREPARATORY APPLIED MUSIC (1 to 2, 1 to 2)

Credit in this course may not be applied on a major or minor in music or on the applied music requirement of the Bachelor of Music Education degree. It may apply toward college elective requirements.

### 21, 22. APPLIED MUSIC (First Year) (1 to 4, 1 to 4)

### 55, 56. APPLIED MUSIC (Second Year) (1 to 4, 1 to 4)

### 91, 92. STRING INSTRUMENT CLASS (1, 1)

A study of the string instruments of the orchestra to give students an understanding of the basic elementary technique of each.

### 93, 94. WOODWIND INSTRUMENT CLASS (1, 1)

An introductory study of the orchestral woodwind instruments.

### 95, 96. BRASS INSTRUMENT AND PERCUSSION CLASS (1, 1)

An introductory study of the orchestral brass and percussion instruments.

### 121, 122. APPLIED MUSIC (Third Year) (1 to 4, 1 to 4)

### 155, 156. APPLIED MUSIC (Fourth Year) (1 to 4, 1 to 4)

### 190. SENIOR RECITAL (1)

The presentation of a creditable public recital approved by the music faculty.

## THEORY

### 1. ELEMENTS OF MUSIC (2)

The study of the rudiments of music, dictation, sight-singing and ear-training. Primarily for students without any previous music training. This course may count only as a college elective and may not be counted on a major or a minor or toward the Bachelor of Music Education requirements.

## 5, 6. THEORY I (3, 3)

A thorough study of the fundamentals of musicianship, including four-voice part writing of triads, diatonic modulation, non-harmonic tones. Emphasis on correlated ear-training and keyboard harmony. Four class periods a week.

Prerequisite: Music I or its equivalent.

## 51, 52. THEORY II (3, 3)

A continuation of the study of harmony, including four-voice part writing of triads, seventh chords, altered chords, chromatic modulation. Continued emphasis is given to correlated ear-training and keyboard harmony. Four class periods a week.

Prerequisite: Music 5, 6.

## 101. MUSIC FORM (3)

An analytical course including a study of the smaller forms through the sonata and rondo forms and the contrapuntal forms.

Prerequisite: Music 5, 6.

## 107, 108. COUNTERPOINT (3, 3)

A study of the polyphonic styles of the 16th and 18th centuries, with practice in writing two- and three-part motets and inventions.

Prerequisite: Music 5, 6.

## 115, 116. MUSIC COMPOSITION I (2, 2)

Practice in writing original compositions in the smaller forms. Emphasis is placed on 20th century compositional techniques.

Prerequisite: Music 51, 52.

## 125, 126. MUSIC COMPOSITION II (2, 2)

Advanced composition in the larger forms, with opportunity for orchestrating one's composition. Music 123 should be taken previously or concurrently.

Prerequisites: Music 51, 52, 107, 108, 115, 116.

## 123. ORCHESTRATION (2)

A study of the instruments of the orchestra; arranging music for the orchestra.

Prerequisites: Music 51, 52.

### *Graduate courses:*

## 201, 202. MUSIC COMPOSITION III (2, 2)

Advanced work in original composition in the various forms.

Prerequisite: Music 125, 126.

## MUSIC HISTORY AND LITERATURE

## 111, 112. HISTORY OF MUSIC (3, 3)

A chronological study of the various periods in the development of music from the earliest times to the present.

Prerequisite: Music I or equivalent.

## 113, 114. HISTORY OF CHURCH MUSIC (2, 2)

A study of music and its relation to the church from the time of Hebrew music to the present. Emphasis upon hymns and hymn-tunes and the place of music in worship.

## Music

### 197. AESTHETICS (3)

A study of the principles of aesthetics and the aesthetic experience involved in the creation and understanding of the various arts.

### 198. INTRODUCTION TO MUSICOLOGY (2)

An introduction to various fields of music knowledge and research to prepare a student for graduate study in music.

Prerequisites: Music 51, 52; 58; and the approval of the instructor.

### 199. ADVANCED MUSIC PROJECTS (1 or 2)

#### *Graduate courses:*

### 213. MUSIC OF THE CLASSIC ERA (2)

A study of the period of Haydn and Mozart and their contemporaries.

Prerequisite: Music 111, 112.

### 273, 274. SEMINAR IN CHURCH MUSIC (2, 2)

Studies in various phases of the music of the church.

Prerequisite: Music 113, 114.

## CONDUCTING

### 60. ELEMENTARY CONDUCTING (2)

Fundamental rules and practice in conducting congregational singing. The practical use of music in the church and in evangelism. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.)

Prerequisite: Music I or equivalent.

### 132. CONDUCTING TECHNIQUE (2)

The study of the principles of conducting, score reading, and methods in rehearsals. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.)

## MUSIC EDUCATION

### 118. MUSIC IN THE ELEMENTARY SCHOOL (2)

(See Elementary Teacher Education 118.) May be counted only toward a Bachelor of Music Education degree, or as a college elective.

Prerequisite: Music I or equivalent.

### 120. MUSIC IN THE SECONDARY SCHOOL (2)

A study of the various music activities carried on in the secondary schools, including curriculum, organization, and administration of choral, instrumental, and general music classes.

### 189. WIND INSTRUMENT MATERIALS AND TECHNIQUES (2)

A survey of the best materials and methods for teaching the wind instruments. (May be counted only toward a Bachelor of Music Education degree, or a college elective.)

### 191. VOICE MATERIALS AND TECHNIQUES (2)

A study of the best materials and methods of teaching voice and directing choral organizations. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.)

193. PIANO MATERIALS AND TECHNIQUES (2)

Piano teaching problems and methods. (May be counted only toward a Bachelor of Music Education degree or as a college elective.)

195. VIOLIN MATERIALS AND TECHNIQUES (2)

Violin teaching and the organization of instrumental groups. (May be counted only toward a Bachelor of Music Education degree or as a college elective.)

*Graduate courses:*

231. THE PEDAGOGY OF THEORY (2)

A study of texts and methods in the teaching of music theory. Prerequisites: Music 51, 52; 107, 108.

ORGANIZATIONS

An organization may be repeated once only for credit. Not more than a total of six hours of credit in organizations may be applied toward a Bachelor of Arts degree.

71, 72. THE CONCERT BAND (1, 1)

Membership is open to all students of band instruments. A limited number of college-owned instruments can be rented each semester. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.)

73, 74. THE COLLEGE CHOIR (1, 1)

The College choral organizations are open to singers who qualify for membership. Representative works of the masters of choral composition, both sacred and secular, are studied and performed. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.)

75, 76. THE CONCERT ORCHESTRA (1, 1)

This organization aids in developing a sense of time and musicianship and offers worth-while opportunity for students of musical instruments in a symphony orchestra. Classical and light music are studied and played each semester. Membership is open to all students who qualify after a conference with the director. (May be counted only toward a Bachelor of Music Education degree or as a college elective.)

77, 78. ENSEMBLE MUSIC (1, 1)

Instrumental and vocal groups, such as La Sierrans, quartets, trios, etc., under the direction of the music staff. (May be counted only toward a Bachelor of Music Education degree or as a college elective.)

177, 178. ADVANCED ENSEMBLE MUSIC (1 or 2, 1 or 2)

Advanced work in vocal and instrumental ensembles, under the direction of the music staff. (May be counted only toward a Bachelor of Music Education degree or as a college elective.)

## CURRICULUM FOR MUSIC MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Theory I (Music 5, 6) . . . . .	3	3
Applied Music (Music 21, 22) . . . . .	1	1
Freshman English (English 1-2) . . . . .	3	3
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History of Western Civilization (History 51, 52) . . . . .	3	3
Beginning Language . . . . .	3	3
(Not required of those who present two units of college entrance in the chosen language.)		
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

### SOPHOMORE YEAR

Theory II (Music 51, 52) . . . . .	3	3
Applied Music (Music 55, 56) . . . . .	1	1
General Psychology (5) . . . . .	3	
Introduction to Visual Arts (57) . . . . .		3
Religion . . . . .	2	2
General Education Basic Science (Science 63, 64) . . . . .	4	4
Intermediate Language . . . . .	3	3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### JUNIOR YEAR

Applied Music (Music 121, 122) . . . . .	1	1
Counterpoint (Music 107, 108) . . . . .	3	3
Religion . . . . .	2	2
Literature . . . . .		3
American History and Institutions (History 91, 92) . . . . .	3	3
Speech . . . . .	3	
Language . . . . .	2	
Health Principles (Health 59) . . . . .		2
Applied Arts . . . . .	3	
Electives . . . . .		2
	17	16

### SENIOR YEAR

Applied Music (Music 121, 122) . . . . .	1	1
History of Music (Music 111, 112) . . . . .	3	3
History of Church Music (Music 113, 114) . . . . .	2	2
Music Electives . . . . .	4	4
Electives . . . . .	6	6
	16	16

# CURRICULUM FOR THE BACHELOR OF MUSIC EDUCATION

(Suggestive only)

FRESHMAN YEAR		
	First Semester	Second Semester
Theory 1 (Music 5, 6)	3	3
Applied Music (Music 21, 22)	2	2
Freshman English (English 1-2)	3	3
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 51, 52)	3	3
Music Organization	1	1
String Instrument Class (Music 91, 92)	1	1
Voice	1	1
Physical Education (7, 8)	$\frac{1}{2}$	$\frac{1}{2}$
SOPHOMORE YEAR		
	16 $\frac{1}{2}$	16 $\frac{1}{2}$
Theory II (Music 51, 52)	3	3
Applied Music (Music 55, 56)	2	2
Religion	2	2
General Education Basic Science (Science 63, 64)	4	4
General Psychology (5)	3	
Introduction to Visual Arts (57)		3
Piano	1	1
Music Organization	NC	NC
Physical Education (55, 56)	$\frac{1}{2}$	$\frac{1}{2}$
JUNIOR YEAR		
	15 $\frac{1}{2}$	15 $\frac{1}{2}$
Applied Music (Music 121, 122)	2	2
Counterpoint (Music 107, 108)	3	3
Religion	2	2
Education	3	4
Music Form (Music 101)	3	
Conducting Technique (Music 132)		2
Health Principles (Health 59)	2	
Music in the Elementary School (Music 118)		2
Band Instrument and Percussion Class (Music 95, 96)	1	1
Music Organization	1	1
SENIOR YEAR		
	17	17
Applied Music	2	2
Literature	2	2
Music Composition (Music 115)	2	
Orchestration (Music 123)	2	
History of Music (Music 111, 112)	3	3
Education	4	4
Music in the Secondary School (Music 120)		2
Materials and Techniques (Music 189 or 191 or 193 or 195)		2
Woodwind Instrument Class (Music 93, 94)	1	1
Music Organization	NC	NC
	16	16

Note: It is recommended that students in this curriculum meet the state requirements in American History, U. S. Constitution or government, California government, by passing a waiver examination or by taking the courses in summer sessions or by extension.

# Physics

## PHYSICS

J. W. RIGGS, JR. (head), L. H. CUSHMAN, D. E. LEE,  
H. W. BESEL

Fostering an intellectual curiosity which will extend through the students' post-college years, imparting an attribute of open-minded consideration of controversial questions, and building an appreciation of the part played by physics in everyday living and in international affairs constitute the general objectives of the department. For the physics major there are the additional objectives of adequate preparation for professional training or for graduate work in physics, adequate factual preparation for secondary teaching in physics, preparation for employment under the Civil Service classification of junior scientist physicist, or similar grade in private industry.

*Major Requirements:* Bachelor of Arts Degree required courses: Physics 61, 62; 151, 152; 171; 181; 177-AN; 178-AN; 1 hour of 198 or 199; and electives for a total of 32 or more hours, 24 of which must be upper division.

Bachelor of Science degree required courses: Same as for Bachelor of Arts degree plus Physics 172; 182; plus electives in physics for a total of 44 or more hours. This degree is designed primarily for those students interested in attending a graduate school. Changes in course requirements may be made upon the guidance of the department head.

Required cognates: Mathematics 51, 52 or 5, 6 and 61; 71, 72; 141, 142 for the B.A. degree and 151 for the B.S. degree. Language, Russian, German or French recommended. Chemistry: 8 to 10 semester hours.

*Minor Requirements:* Physics 61, 62; 151, 152; 177-AN, 178-AN; plus electives for a total of 18 semester hours.

*Science and Mathematics Major:* For Division Major (Science and Mathematics Secondary Teaching Major) see under Professional and Pre-Professional Programs.

Honors Studies in Physics: Honors credit in physics to the extent of 2 semester hours in Projects and Topics is available as 199-H.

### 51, 52. COLLEGE PHYSICS (4, 4)

Mechanics, heat, sound, electricity, optics, and modern physics. Three hours of lecture and 3 hours of laboratory each week.

Prerequisites: Mathematics 5 and 8; or equivalent in high school. This course is primarily for the non-physical science and non-engineering major. This course may take the place of 61, 62 for the physics major or minor only with permission of the head of the department.

Text: Miller: *College Physics*.

## 61, 62. GENERAL PHYSICS (4, 4)

Elementary calculus and vector notation is applied to the study of mechanics, heat, sound, electricity, optics, and modern physics. This course is designed primarily for physical science and engineering students. Three hours of lecture and three hours of laboratory each week.

Prerequisites: Mathematics 71, 72 which may be taken concurrently.  
Text: Sears and Zemansky: *University Physics*. Credit may not be earned in both Physics 51, 52 and 61, 62.

## 103. INTRODUCTION TO ASTRONOMY (3)

A study of the individual planets, the sun, the solar system, the milky way, and the universe as a whole as revealed by astronomical observations. A course of interest to teachers, ministerial students, and others. Cannot be taken for credit on a physics major. Two class periods and one laboratory per week.

Prerequisite: General Education Basic Science (63) or Physics 51, 52.  
Text: Baker: *Astronomy*.

## 131, 132. OPTICS (2, 2)

Refraction and reflection; wave motion; diffraction and interference polarization. Physics 177-0 and 178-0, optics laboratories are designed to accompany this course.

Prerequisites: Physics 61, 62; Mathematics 71, 72 or may be taken concurrently.

Text: Rossi: *Optics*.

## 141, 142. HEAT AND THERMODYNAMICS (2, 2)

Thermodynamic variables and the state of a system; laws of thermodynamics; thermodynamic relationships; kinetic theory; classical statistical mechanics; quantum statistics. Physics 177-HT and 178-HT, heat and thermodynamics laboratories are designed to accompany this course.

Prerequisites: Physics 61, 62; Mathematics 71, 72 or may be taken concurrently.

Text: Constant: *Theoretical Physics*, Vol. II, Part 1.

## 151, 152. ATOMIC AND NUCLEAR PHYSICS (3, 3)

Charged atomic particles; nuclear atom; natural radioactivity; x-rays; waves and particles; hydrogen atom; disintegration of nuclei; optical spectra and electron distribution; x-ray spectra; nuclear processes, nuclear fission; fundamental particles; new elements and isotopes; particle accelerators. Physics 177-AN and 178-AN are atomic and nuclear laboratories designed to accompany these courses.

Prerequisites: Physics 61, 62; Mathematics 71, 72 or may be taken concurrently.

Text: Semat: *Introduction to Atomic and Nuclear Physics*.

## 161, 162. ELECTRONICS (2, 2)

Analysis of electrical and electronic circuits; electron tubes; transistors; audio and radio frequency oscillators and amplifiers; microwaves. Physics 177-E and 178-E electronic laboratories are designed to accompany this course.

Prerequisites: Physics 61, 62; Mathematics 71, 72 or may be taken concurrently.

Text: Albert: *Electronics and Electronic Devices*.

## Physics

### 171, 172. THEORETICAL MECHANICS (3, 3)

Differential equations of motion; moving axes; Poisson's and Laplace's equations; motion of a particle when the applied force is a function of a constant, time, position, or velocity; non-linear oscillator; perturbations and successive approximations; conservative system of forces; scattering of alpha particles; degrees of freedom and constraints; momentum and torque of a group of particles; moments and products of inertia; principal axes; Euler's equations; Lagrange's equations; Hamilton's equations.

Prerequisites: Physics 61, 62; Mathematics 141, 142 or may be taken concurrently; Mathematics 151 recommended.

Text: Constant: *Theoretical Physics*, Vol. I.

### 177, 178. ADVANCED PHYSICAL MEASUREMENTS (1 or 2, 1 or 2)

Formal laboratory work in upper division physics: -0, optics; -AN, atomic and nuclear; -E, electronics; -EM, electricity and magnetism; -HT, heat and thermodynamics. Laboratory: 3 or 6 hours each week. Prerequisites: An upper division course in the same field or taken concurrently, or with consent of the department head.

### 183, 184. ELECTRICITY AND MAGNETISM (3, 3)

Coulomb's law of force; Gauss' law; divergence and curl of  $E$ ; Poisson's and Laplace's equations; theory of images; Ampere's law; the magnetic field; curl and divergence of  $B$ ; vector potential; Faraday's law; Lenz's law; curl of  $E$ ; relation between  $B$  and the vector potential; Maxwell's postulates and electromagnetic equations; Electromagnetic properties of material media; reflection and refraction of electromagnetic waves. Physics 177-EM and 178-EM, electricity and magnetism laboratories are designed to accompany these courses. Prerequisites: Physics 61, 62; Physics 171; Mathematics 141, 142.

Text: Constant: *Theoretical Physics*, Vol. II, Part 2, 3.

### 191, 192. INTRODUCTION TO QUANTUM MECHANICS (2, 2)

Classical background and elementary formation of quantum mechanics. Application of Schrodinger's equations to the free particles, particle in a box, harmonic oscillator, rigid rotator, and hydrogen atom. Prerequisites: Physics 151, 152; Mathematics 109 or may be taken concurrently.

Text: Sherwin: *Introduction to Quantum Mechanics*.

### 198, 199. PROJECTS AND TOPICS IN PHYSICS (1 to 8)

Projects: -X consist of an experimental study of a specific problem chosen by the student in consultation with a staff member.

Topics: -S Spectroscopy, -R Reactor Physics, -A Astro-physics. One class and one laboratory. Two hours per semester.

Prerequisites: Upper division physics major or minor status or with permission of department chairman.

### Graduate courses:

### 203. HISTORICAL AND PHILOSOPHICAL BACKGROUNDS OF THE PHYSICAL SCIENCES (3)

A case study of the historical and philosophical setting involved in the development of some of the important theories of the physical sciences. From this study a science teacher can synthesize a deeper understanding of the nature of the physical sciences and their relation to the other disciplines.

Prerequisite: At least 20 hours work in the physical sciences.

### 211, 212. ATOMIC PHYSICS (3, 3)

An expository, analytical approach to the topics of atomic physics using the methods of elementary quantum mechanics.

Prerequisite: Permission of the instructor.

### GENERAL EDUCATION BASIC SCIENCE

This is a science course which should normally be chosen by the student not intending to make any natural science his field of major concentration.

### 63. NATURAL SCIENCE: PHYSICAL (4)

A study of the earth, the characteristics of its surface and its resources of materials and energy in relation to the rest of the known universe. Offered both semesters.

### SCIENCE AND MATHEMATICS DIVISION OFFERING

### 181. PROCEDURES AND MATERIALS IN SCIENCE AND MATHEMATICS (2)

A study of the procedures and materials of secondary science and mathematics. May not be taken for science and mathematics degree requirements.

Prerequisite: Education 165 or taken concurrently.

# Physics

## CURRICULUM FOR PHYSICS MAJOR B.A. and B.S. Degree\*

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Religion 1, 2 . . . . .	2	2
English 1-2 . . . . .	3	3
Mathematics 51, 52 or 5, 6 . . . . .	3	3
History . . . . .	3	3
Chemistry 5-6 or 7-8 . . . . .	5	5
Physical Education 7, 8 . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### SOPHOMORE YEAR

Religion . . . . .	2	2
Intermediate Language 53-54 . . . . .	3	3
General Education Basic Science (Science 64) . . . . .	4	
Physics 61, 62 . . . . .	4	4
Mathematics 71, 72 . . . . .	3	5
Physical Education 55, 56 . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
Electives . . . . .		2
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### JUNIOR YEAR

General Psychology 5 . . . . .		3
Physics 171, 172 . . . . .	3	3
Fine Arts (Physics 132, 178-0) * . . . . .		3
Applied Arts . . . . .	3	
Physics 151, 152, 177-AN, 178-AN . . . . .	4	4
Mathematics 141, 142 . . . . .	2	2
Electives (Physics 131, 198-R, 199-X) . . . . .	4	1
	16	16

### SENIOR YEAR

Religion . . . . .	2	2
History . . . . .		3
Literature and Speech . . . . .	3	3
Physics 181, 182, 177-EM . . . . .	4	3
Physics 141 . . . . .	2	
Physics 198-X . . . . .	1	
Electives (Physics 142, 161, 162, 178-E, 191, or Mathematics 151) . . . . .	4	5
	16	16

\*B.S. degree students may take courses listed in parentheses.  
B.A. degree students may choose electives.

PSYCHOLOGY

STANLEY BULL (head), MAURICE HODGEN, MAYBEL JENSEN,  
G. T. SIMPSON

*Psychology and Sociology Combined Major Requirements:* 40 hours, 22 in psychology and 18 in sociology. Upper division requirements: 12 hours of psychology and 10 sociology. Required courses: Psychology 5, 54; Sociology 47, 85.

*Minor Requirements:* 20 hours, of which a minimum of 12 must be in the upper division. Social Sciences 187 and Education 155 are recommended cognates.

R. READING IMPROVEMENT (no credit)

A course designed to aid the slow reader in correcting faulty habits or reading — psychological and mechanical.

5. GENERAL PSYCHOLOGY (3)

A foundation course designed to help the student understand and explain the behavior of others and thereby be better equipped to predict and control his own life and influence the lives of others. (Not applicable toward an education major or minor.)

54. PERSONAL AND SOCIAL ADJUSTMENT (3)

Orientation in the practical use of psychological principles in problems and circumstances encountered in college and later life. An examination and interpretation of the factors which contribute to personality development.

85. SOCIAL PSYCHOLOGY (3)

(See Sociology department for description of course.)

101. PSYCHOLOGY OF ADOLESCENCE (2)

A course dealing with the most significant problems in adolescent development, with special emphasis upon the psychological principles that govern behavior.

107. PERSONALITY AND MENTAL HYGIENE (2)

A study of the constructive and preventive contributions of education to mental health and personal growth. Emphasis is placed on basic attitudes that influence behavior and on methods of working with these attitudes, individually and in groups, to develop more constructive behavior.

114. EDUCATIONAL PSYCHOLOGY (3)

A study of the physical, mental, emotional, and social growth and development of the child and the adolescent in society. A survey of the various psychological processes important to learning and its direction, with special emphasis on the significance of the principles of psychology in various teaching procedures.

121. CHILD GROWTH AND DEVELOPMENT (2)

A study of the physical, mental, social, and emotional development of the child from infancy through early adolescence together with an analysis of the scientific principles of child psychology, with emphasis upon the characteristics of childhood, the development of language, learning, and social behavior.

170. THE EXCEPTIONAL CHILD (2)

A study of the determinants, characteristics, problems and adjustments of children who deviate markedly from the norm in their mental, physical, emotional and social aptitudes, traits and tendencies. Educational methods to be used with deviate children are investigated and analyzed.

Prerequisite: Psychology 121 or permission.

## Romance Languages

### 173. THE RETARDED CHILD (2)

The course dealing with the characteristics and needs of the retarded, mental deficient, and related deviations in the child. A study is made of the degrees of impairment and the activities and materials best suited to develop the child's potential.

Prerequisite: 170 or permission.

### 174. THE GIFTED CHILD (2)

The psychological understanding of the superior child and his adjustment to school and community. Emphasis is given to special class programs and special teaching techniques for the regular classroom teacher.

Prerequisite: Psychology 121 or permission.

### 178. ABNORMAL PSYCHOLOGY\*\* (3)

The psychology of behavior disorders, with emphasis on origins, symptoms, and treatment of personality disturbances and mental disorders.

Prerequisites: Psychology 5, Education 155.

### 210. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (2)

(See Education 210 for description of course.)

## ROMANCE LANGUAGES

MARGARETE HILTS (head), GRACE ALVAREZ

The objectives of this department are to equip the major with the necessary tools to enter professions requiring foreign language and to prepare him for graduate study. The aim is to develop the student's ability to reason inductively, to give him a deeper insight into his mother tongue, to arouse in him an awareness and appreciation of his cultural heritage, and to stimulate his interest in the foreign mission program of the church.

In fulfilling his language requirements, the student should be aware that a reading knowledge of either French or German will be required of him on Master's degree work, and quite probably both French and German on a Ph.D. program.

Before enrolling in a modern language course numbered 100 or above, a student must have completed 12 to 14 hours, or the equivalent, of one language. Education 181 and 190 are recommended for students planning to teach a language.

HONORS STUDIES IN FRENCH. Consult Studies for Honors, for a description of the Honors Program at La Sierra College. Honors credit in French to the extent of 1 or 2 semester hours is available in each of these courses: 141-H, 142-H, 151-H, 152-H.

### FRENCH

*Major Requirements:* 30 hours in addition to French 3-4 or the equivalent, of which a minimum of 24 hours must be in the upper division. These must include 131, 155, 156. Required cognates: English or Western World literature, 4-6 hours; speech 2-4 hours. Recommended cognate: Biblical Languages 51-52.

## Romance Languages

*Minor Requirements:* 18 hours above the beginning course or its equivalent, of which a minimum of 9 must be in the upper division, including 131. This requirement may be reduced to 15 hours if a student has 2 secondary units or the equivalent in a language other than French.

3-4. BEGINNING FRENCH (3-3)

An introductory study of grammar, pronunciation, reading, composition, with oral practice. Laboratory time required.

51. INTRODUCTION TO FRENCH READING (3)

A beginning French course designed specifically for students desiring to acquire a reading knowledge of French. Open only to college graduates or to students who have completed twelve semester hours or the equivalent of another language.

53-54. INTERMEDIATE FRENCH (3-3)

A continuation of 3-4. A review of grammar with readings from French authors. Prerequisite for French 155, 156.

Prerequisite: French 3-4 or equivalent.

57, 58. READING OF FRENCH MASTERPIECES (2, 2)

Reading and discussion of selected works in French literature. May be taken concurrently with French 53-54.

101, 102. VOCABULARY BUILDING (2, 2)

Designed to enlarge the student's vocabulary, mainly through oral use.

123, 124. OUTLINE HISTORY OF FRENCH LITERATURE (3, 3)

Literary landmarks from La Chanson de Roland to the 19th century. Special stress on the 17th century.

131. PRONUNCIATION (2)

A thorough study of the fundamental principles of French pronunciation.

141. ROMANTICISM (2)

Through the study of leading pre-Romantic and Romantic authors, this course traces the development of the Romantic movement from its beginnings to approximately 1850.

142. MODERN FRENCH WRITERS (2)

The development of realism, symbolism and other literary movements of the latter part of the nineteenth century as manifested in the principal writers of the period.

143-144. READING FRENCH (1-1)

Readings in French in the student's major field, readings chosen in conference with the major professor and the language professor.

151, 152. CONTEMPORARY WRITERS \* (3, 3)

A study of selected twentieth century authors who reflect the current French temperament.

155, 156. ADVANCED COMPOSITION \* (2, 2)

Further study of grammar and idiomatic expressions with translations of literary works from English into French. Both semesters are required of majors and are recommended for minors.

Prerequisite: French 53-54.

## Romance Languages

### SPANISH

*Minor Requirements:* 18 hours above a beginning college course, or its equivalent, of which a minimum of 9 must be in the upper division, including 131, 132; 145, 146. This requirement may be reduced to 15 hours if a student has 2 secondary units or the equivalent in a language other than Spanish.

#### 53-54. INTERMEDIATE SPANISH (3-3)

Grammar review, oral practice; readings from Spanish and Hispanic American authors.

Prerequisite: Two units of High School Spanish or the equivalent.

#### 67, 68. READING OF SPANISH AUTHORS (2, 2)

#### 131. ADVANCED COMPOSITION AND CONVERSATION (2)

Recommended for teaching minors.

#### 132. ADVANCED GRAMMAR AND COMPOSITION (2)

Recommended for teaching minors.

#### 143-144. READING SPANISH (1-1)

Readings in Spanish in the student's major field, readings chosen in conference with the major professor and the language professor.

#### 145, 146. OUTLINE HISTORY OF SPANISH LITERATURE\* (3, 3)

Literary landmarks from the Middle Ages through the contemporary period with emphasis on the authors of the Golden Age and of the nineteenth century.

#### 149. SPANISH CIVILIZATION (2)

A survey of the physical, racial, historical, and artistic elements which have influenced and molded Spanish civilization and culture, and their influence on the cultures of the world.

#### 161, 162. HISPANIC AMERICAN LITERATURE (2, 2)

A survey of the trends in Hispanic American literature from its beginnings to contemporary times with emphasis on Dario, Bello, Palma, and others.

## CURRICULUM FOR FRENCH MAJOR

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History of Western Civilization (History 52) . . . . .		3
Freshman English (English 1-2) . . . . .	3	3
Beginning French (French 3-4) . . . . .	3	3
(Not applicable to those who have college entrance in the same language.)		
General Psychology (5) . . . . .	3	
Health Principles (Health 59) . . . . .		2
Applied Arts . . . . .	3	
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
Elective . . . . .	2	3
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### SOPHOMORE YEAR

Religion . . . . .	2	2
American History and Institutions (History 91, 92) . . . . .	3	3
Intermediate Language . . . . .	3	3
General Education Basic Science (Science 63, 64) . . . . .	4	4
English Literature or Speech . . . . .	2-3	2-3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
Electives . . . . .	1-2	1-2
	15 $\frac{1}{2}$ -16 $\frac{1}{2}$	15 $\frac{1}{2}$ -16 $\frac{1}{2}$

### JUNIOR YEAR

Upper Division French . . . . .	7	5
(A student in the junior year should take note that many of the upper division French classes are offered only in alternate years, and he should therefore, in consultation with the chairman of his department arrange his study list accordingly.)		
Religion . . . . .	2	2
Fine Arts . . . . .		3
Western World Literature or Speech . . . . .	2	2
Electives . . . . .	5	4
	16	16

### SENIOR YEAR

Upper Division French . . . . .	7	5
Electives . . . . .	9	11
	16	16

## Secretarial Science

### SECRETARIAL SCIENCE

IRENE ORTNER (head), JUNE NEWTON

The degree program in Secretarial Science is designed to prepare the student for professional secretarial work in denominational or commercial offices or for business teaching. It combines the broad cultural background of a college education with thorough training in basic office skills.

*Major Requirements:* 34 hours, of which a minimum of 15 must be in the upper division..

**SECRETARIAL:** Required courses: Secretarial Science 57; 63; 64; 14; 53; 54; 70. A maximum of 4 hours of Business Administration may be included in the total upper division hours. Cognate requirements: Economics 51-52 and Speech (at least 2 hours).

**BUSINESS EDUCATION:** Students choosing this curriculum minor in Secondary Education. Required courses: Business Administration 55, 56; Secretarial Science 57; 63; 53; 54; 70; and 181. A maximum of 4 hours of Business Administration may be included in the total upper division hours. Cognate requirements: Economics 51-52 and Speech (at least 2 hours).

*Minor Requirements:* 18 hours, of which a minimum of 5 are upper division. Required: Secretarial Science 63 and 70.

(The two-year Stenographic Certificate requirements are listed in the Professional and Pre-Professional section of this BULLETIN.)

### TYPEWRITING

#### 3. BEGINNING TYPEWRITING (2)

The techniques of touch typewriting as applied to business and personal use. Meets five days a week. Offered first semester only.

#### 9. TYPEWRITING REVIEW (1)

A review of basic techniques and applications for either business or personal use. For students with previous training whose speed on a 5-minute test is 30-40 wpm. Meets three days a week. Offered both semesters. Credit is not allowed for both 3 and 9.

#### 57. ADVANCED TYPEWRITING (2)

Emphasis on increased speed, accuracy, and skill in the typing of letters and business projects. Meets five days a week. Offered both semesters.

Prerequisite: Secretarial Science 3 or 9 or 45 wpm.

### SHORTHAND

#### 7. BEGINNING SHORTHAND (4)

Theory of Gregg Shorthand Simplified; simple dictation of familiar material. (May not be taken for credit by those with previous shorthand training.)

## Secretarial Science

### 8. SHORTHAND DICTATION (4)

Speed-building dictation of new material; elementary transcription on the typewriter.

Prerequisite: Secretarial Science 3 or 9 and 7 or equivalent.

### 11, 12. SHORTHAND REVIEW\* (2, 2)

A review of Gregg Shorthand for students whose previous training does not qualify them for 63, 64 Dictation and Transcription. Credit is not allowed for both 7 and 8 and 11, 12.

### 63, 64. DICTATION AND TRANSCRIPTION (4, 4)

Further development of shorthand speed plus intensive training in fast and accurate transcription of mailable letters. The second semester includes work in denominational vocabulary. (First semester is prerequisite to the second semester.)

Prerequisite: Secretarial Science 8 or equivalent.

### 52. GREGG NOTEHAND (3)

A course in note-taking for those interested in improving their skill in taking notes from lectures, reading, interviews, and research. It is based on the alphabet of Gregg shorthand but is designed for personal use rather than for verbatim recording of dictation. (Does not apply on a secretarial major, minor, or 2-year program.)

### 108. ADVANCED SHORTHAND \* (3)

Dictation and transcription of Congressional and denominational material at the higher speeds.

Prerequisite: Secretarial Science 63.

### 170. MEDICAL STENOGRAPHY (2 or 3)

Shorthand and machine dictation and transcription of material selected from medical case histories, letters, and hospital records.

Prerequisite: Secretarial Science 63.

## OFFICE PRACTICE

### 14. SECRETARIAL ACCOUNTING (3)

Instruction in accounting fundamentals adapted to the needs of future secretaries and stenographers. Will not apply on a Business major or minor. Offered both semesters. First semester class limited to those having had bookkeeping on the secondary level.

### 53. BUSINESS MACHINES (2)

Instruction and practice on the machines commonly used in business offices. Types of machines included are adding and calculating, duplicating, and dictation-transcription. One hour lecture and three hours laboratory each week. Offered both semesters.

Prerequisite: Secretarial Science 3 or 9 or equivalent.

### 54. INDEXING AND FILING (1)

A study of the filing systems most commonly used in offices; practice in card and correspondence filing and finding. Offered both semesters.

Prerequisite: Secretarial Science 3 or 9 or equivalent.

### 70. OFFICE PROCEDURES (3)

Preparation for the activities and procedures common to most stenographic jobs and a study of the human relationships involved. Two class periods and a laboratory each week.

Prerequisite: Secretarial Science 57. (May be taken concurrently.)

## Secretarial Science

141. BUSINESS LAW I (3)  
(See Business Administration 141.)

142. BUSINESS LAW II (3)  
(See Business Administration 142.)

161. BUSINESS COMMUNICATIONS \* (3)  
The composition and dictation of business letters and reports.

164. OFFICE MANAGEMENT (3)  
The planning and organizing of business and secretarial offices. Special attention is given to the training of office employees, the selecting of equipment, the planning of office space, and organizing the flow of work through the office.

174. THE PROFESSIONAL SECRETARY (2)  
A consideration of the duties, attitudes, responsibilities, and personal qualifications which characterize the fully trained professional secretary.  
Prerequisite: Secretarial Science 70 or permission of the instructor.

## BUSINESS EDUCATION

181. PROCEDURES AND MATERIALS IN BUSINESS EDUCATION (2)  
The application of the principles of teaching in the secondary school to the teaching of shorthand, typewriting, and bookkeeping, with particular attention to materials and techniques available. (Does not apply on major in secretarial area.)  
Prerequisite: Secondary Education 165. (May be taken concurrently.)  
(See Secondary Education 181.)

## CURRICULUM FOR MAJOR IN SECRETARIAL SCIENCE (B.S.)

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
Secretarial Accounting (Secretarial Science 14) . . . . .	3	
Applied Arts . . . . .		3
Speech . . . . .		2
*Beginning Typewriting (Secretarial Science 3) . . . . .	2	
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
*Beginning Shorthand (Secretarial Science 7) . . . . .	4	
*Shorthand Dictation (Secretarial Science 8) . . . . .		4
Electives . . . . .	1	2
	15½	16½

\*Students having the equivalent of all or part of these may substitute second-year shorthand and typewriting or electives.

### SOPHOMORE YEAR

Religion . . . . .	2	2
Principles of Economics (Economics 51-52) . . . . .	3	3
Office Procedures (Secretarial Science 70) . . . . .		3
*Advanced Typewriting (Secretarial Science 57) . . . . .	2	
*Dictation and Transcription (Secretarial Science 63, 64) . . . . .	4	4
Indexing and Filing (Secretarial Science 54) . . . . .		1
Business Machines (Secretarial Science 53) . . . . .	2	
American History and Institutions (History 91, 92) . . . . .	3	3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

\*Students taking these in the freshman year substitute Physics 63 and Biology 64 and/or electives.

### JUNIOR YEAR

Upper Division Electives on Major . . . . .	5	4
General Education Basic Science (Science 63, 64) . . . . .	4	4
Literature . . . . .	3	
History of Western Civilization . . . . .		3
Electives . . . . .	4	4
	16	15

### SENIOR YEAR

Upper Division Electives on Major . . . . .	3	3
Religion . . . . .	2	2
Literature or Speech . . . . .	2	
Electives . . . . .	9	11
	16	16

Note: Majors preparing for business teaching will substitute Principles of Accounting (Business Administration 55,56) for Secretarial Accounting and will choose electives from Secondary Education.

## Social Science

### SOCIAL SCIENCES

F. G. HOYT (head), C. C. CRIDER, R. L. KOORENNY

*Social Science Major Requirements:* This major is designed for students wishing to pursue a broad educational program with special emphasis on the social sciences. Students planning for Social Work, Public Relations, or Pre-law should consult the chairman for recommended courses in the cognate area.

PLAN I: 36 hours with no less than 8 hours each in Economics, Political Science, and Sociology; a minimum of 20 hours must be in the upper division. Required courses: Economics 51-52, 187; Political Science 57, 58, 131; and Sociology 47, 62.

PLAN II: 40 hours with at least 22 in the upper division.

Sociology Emphasis: 22 hours in Sociology with at least 12 in the upper division. Required courses: Sociology 47, 85, 184; Economics 187.

An area of minor emphasis is to be chosen from the following:

(1) 18 hours in Economics with at least 10 in the upper division. Required courses: Economics 51-52.

(2) 18 hours in Political Science with at least 10 in the upper division. Required courses: Political Science 55, 56; 57, 58.

(3) 18 hours in Psychology with at least 10 in the upper division. Required courses: Psychology 5, 54.

History 51, 52 is required for Plans I and II.

*Economics Minor Requirements:* 18 hours, of which 12 must be in the upper division. Required: Economics 51-52.

*Political Science Minor Requirements:* 18 hours, of which a minimum of 10 must be in the upper division. Required: Political Science 57, 58 and 131.

*Social Science Minor Requirements:* 18 hours, of which a minimum of 8 must be in the upper division. The minor should include 6 hours in each of two of the following fields: Economics, Political Science, and Sociology.

### ECONOMICS

#### 51-52. PRINCIPLES OF ECONOMICS (3-3)

A study of resources and national income formation; agricultural and industrial organization of production; labor organizations; the money and credit system; price theory and allocation of resources; the theory of income distribution; international trade theory; public finance; economic policies and government.

#### 123. MONEY, BANKING, AND CREDIT (3)

The banking system of the United States and its functions. The monetary system; credit and its functions. The relationship of banking, money and credit to business.

Prerequisite: Economics 52.

## Social Science

131. PUBLIC FINANCE \* (3)

Taxation, public expenditures, debt, and fiscal policy. The role of public finance in prosperity and depression, peace and war. Includes national, state and local taxation.

Prerequisite: Economics 52.

142. ECONOMICS OF BUSINESS CYCLES \* (3)

The measurement, description, and major theories of cyclical fluctuations in modern industrial economies; evaluation of anticyclical policies.

Prerequisite: Economics 52.

162. LABOR ECONOMICS \* (3)

The development and economic effects of trade unions, including a study of the problems associated with the determination of wages, hours, and working conditions in the American economy.

Prerequisite: Economics 52.

172. HISTORY OF ECONOMIC THOUGHT (3)

Development of economic thought from ancient to modern times, with the emphasis on the classical period to the present.

Prerequisite: Economics 52.

187. ELEMENTS OF STATISTICS (3)

Graphic and tabular presentation of quantitative data. Computation of measures of central tendency and dispersion; probability, time-series analysis; sample correlation and index numbers.

## POLITICAL SCIENCE

55, 56. UNITED STATES CONSTITUTION \* (2, 2)

A study of the development of the Federal Constitution from its early beginnings to 1865. The second semester considers the period from 1865 to the present time. Stress is placed on American institutions in their relation to the Constitution. The second half of this course (56) does not apply to state requirement.

57, 58. NATIONAL, STATE, AND LOCAL GOVERNMENT (2, 2)

A study of the structure and functions of the national government of the United States. The first semester satisfies the state requirement in United States Constitution. The second semester covers the organization, politics, and administration of state and local government, and also meets the state requirement for California Constitutional Government.

109. ENGLISH CONSTITUTIONAL HISTORY\* (3)

(See History 109.)

131. WORLD POLITICS\* (3)

A study of the forces and conflicts operating in international relations and world affairs with special attention given to the foreign policies of the great powers considered from the historical, political, and economic viewpoint.

132. COMPARATIVE GOVERNMENT\*\* (3)

A comparative study of the backgrounds, constitutional organization, and activities of the government of England, France, Germany, and Russia.

## Social Science

- 163, 164. AMERICAN DIPLOMATIC RELATIONS \* (2, 2)  
(See History 163, 164.)

- 165, 166. THE FAR EAST IN WORLD AFFAIRS (2, 2)

The first semester gives particular emphasis to the study of the political organizations, social practices, and intellectual influences of the Far Eastern countries to the present. An analysis of contemporary internal and international relationships, colonialism, and imperialism is studied in the latter half of the course.

168. INTRODUCTION TO POLITICAL THEORY\* (3)

A survey of the main currents of political thought from Plato to the present time.

169. PUBLIC OPINION AND PROPAGANDA \* (3)

(See Sociology 169.)

191. READINGS IN POLITICAL SCIENCE (1 to 4)

This course is restricted to social science majors with a minimum three-point average in their major. Students do special study in fields specified by the instructor and meet him for regular conferences each week.

Prerequisite: permission of the department.

## PSYCHOLOGY

5. GENERAL PSYCHOLOGY (3)

(See Psychology department for description of course.)

85. SOCIAL PSYCHOLOGY (3)

(See Sociology department for description of course.)

101. PSYCHOLOGY OF ADOLESCENCE (2)

(See Psychology department for description of course.)

107. PERSONALITY AND MENTAL HYGIENE (2)

(See Psychology department for description of course.)

121. CHILD GROWTH AND DEVELOPMENT (2)

(See Psychology department for description of course.)

170. THE EXCEPTIONAL CHILD (2)

(See Psychology department for description of course.)

178. ABNORMAL PSYCHOLOGY\*\* (3)

(See Psychology department for description of course.)

## SOCIOLOGY

47. FUNDAMENTALS OF SOCIOLOGY (3)

An introductory course to survey, analyze, and define materials in the field of social processes, social changes, social forces, and the general relation of culture to society.

62. ANALYZING SOCIAL PROBLEMS (3)

A systematic treatment of the more important contemporary problems including deviant behavior, vice, alcoholism, drug addiction, mental and physical deficiency, and other problems which may be especially prominent before our society at a particular period.

Prerequisite: Sociology 47 or permission of instructor.

74. **EDUCATION FOR MARRIAGE** (2)  
A study of the social and cultural factors involved in dating, courtship, mate selection, and common problems usually met during the engagement period in preparation for marriage.
75. **MARRIAGE AND THE FAMILY** (2)  
Analysis of contemporary conditions giving rise to tension; problems and processes of adjustment; conjugal and parental roles; family and primary group relationships involved in the training and personality development of children. Restricted to married students and upper division students who have had Sociology 74.
85. **SOCIAL PSYCHOLOGY** (3)  
A study of human interpersonal relationships; basic social psychological principles involved in group behavior and social roles in group life.  
Prerequisites: Sociology 47 and Psychology 5.
- 123, 124. **PRINCIPLES OF SOCIAL WELFARE** (2, 2)  
The first half of this course concerns itself with the history of social welfare and the underlying philosophy and principles of modern social work. The organization of social welfare agencies, federal-state-local relationships and laws are discussed in the second half of the course. Volunteer work in some social agency is recommended.
132. **PERSONALITY AND LEADERSHIP** \* (2)  
An examination of leadership in society; religious, political and social leaders on the contemporary scene; analysis of power structures.  
Prerequisite: Psychology 85.
134. **JUVENILE DELINQUENCY** (3)  
A study of the historical background of the problems which involve modern youth in situations basic to sociology; an analysis of the problems themselves; and an evaluation of the remedial measures now in common use.  
Prerequisite: Sociology 47, Psychology 5, or permission of the instructor.
135. **CRIMINOLOGY**\*\* (3)  
Introduction to the sociology of law, criminal etiology and penology.  
Prerequisite: Sociology 62.
137. **SOCIAL CONTROL**\*\* (2)  
The nature of social control and how it operates in social situations; changing nature of social control in modern urban society.  
Prerequisites: Sociology 47 and Psychology 5.
143. **ETHNIC RELATIONS** (3)  
Race relations in the United States and other countries with special emphasis on ethnic problems involved in foreign mission activity.
145. **CULTURAL GEOGRAPHY**\*\* (3)  
A study of the mutual relationship between man and his physical environment, including an analysis of the various human-use regions to develop an understanding as to why such factors as man's food, clothing, shelter, work, and cultural attitudes vary according to his environment.
146. **CULTURAL ANTHROPOLOGY** \* (3)  
The origin, nature, and diffusion of culture is studied, with special attention to contemporary cultures of the world.  
Prerequisite: Sociology 47.

## Social Science

147. INTRODUCTION TO INDUSTRIAL SOCIOLOGY\*\* (2)  
Analysis of problems involved in industry, unionization, automation; current research about human factors in mechanization.  
Prerequisite: Sociology 132 or equivalent.
169. PUBLIC OPINION AND PROPAGANDA \* (3)  
A study of the problems and processes in the formation of public opinion and how public action may be organized through the use of propaganda and pressure groups.  
Prerequisite: Psychology 85.
184. INTRODUCTION TO SOCIAL RESEARCH (3)  
Basic techniques and principles involved in research in the behavioral sciences.  
Prerequisite: Statistics.
187. DEMOGRAPHIC PROBLEMS\*\* (2)  
Demographic characteristics of the major regions of the world; social economic and political implications of present population trends.  
Prerequisite: Statistics.
191. READINGS IN SOCIOLOGY (1 to 4)  
This course is restricted to social science majors with a minimum three-point average in their major. Students do special study in fields specified by the instructor and meet him for regular conferences each week.  
Prerequisite: permission of the department.

# CURRICULUM FOR SOCIAL SCIENCE MAJOR

(Suggestive only)

## FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Intermediate Language . . . . .	3	3
If a student does not have among his college credits two units of the foreign language which he desires to continue in college, he must also take six hours of beginning language.		
History of Western Civilization (History 51, 52) . . . . .	3	3
Freshman English (English 1-2) . . . . .	3	3
General Psychology (Psychology 5) . . . . .	3	
Fundamentals of Sociology (Sociology 47) . . . . .		3
Electives . . . . .	2	2
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

## SOPHOMORE YEAR

Religion . . . . .	2	2
General Education Basic Science (Science 63, 64) . . . . .	4	4
Health Principles (Health 59) . . . . .	2	
National, State, and Local Government (Political Science 57, 58) . . . . .	2	2
Electives . . . . .	2	2
Major Concentration . . . . .	4	6
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

## JUNIOR YEAR

Religion . . . . .	2	2
Literature . . . . .	3	
Speech (5) . . . . .		3
Fine Arts (57 or 58) . . . . .	3	
United States Constitution (Political Science 55, 56) . . . . .	2	2
Language . . . . .	1	1
Major Concentration (Upper Division) . . . . .	5	5
Electives . . . . .		3
	16	16

## SENIOR YEAR

Major Concentration (Upper Division) . . . . .	7	7
Electives or Minor . . . . .	9	9
	16	16

Students planning on social service training should note the "Presocial Work" section under the Professional and Pre-Professional Programs of this BULLETIN and consult the department chairman for a recommended curriculum.

## Speech

### SPEECH

W. F. TARR (head), WILBER ALEXANDER, DONALD DICK,  
JERRY LIEN

Since a speaker must be an able person, the specific objective of the Speech Department is to prepare students to be competent to observe, listen, and evaluate and in turn to transmit their thoughts, attitudes and feelings effectively to others, whether it be from the public platform, radio studio or in the social group. The curriculum is designed to promote the personal, social and intellectual growth of the individual through a thorough grounding in the principles and techniques of various disciplines of oral communications. It provides a foundation for the selection, evaluation and organization of data, ideas, and opinions; the processes of presentation; the understanding of the listener's role in the speech situation; and professional study of the mass media of public address, radio and television.

In addition to the general speech curriculum, the department offers specialized courses in speech therapy. The student who desires training in this area may select a speech major with emphasis in speech therapy, or he may prepare for the credential to teach speech correction.

**BUILDING AND EQUIPMENT.** The Communication Arts Building, which houses the Speech Department, contains the following facilities: studios, control room and music library for KNFP, the 1700-watt educational broadcasting station operated by the College for training student broadcasters and radio technicians; speech auditorium and classrooms; speech and hearing clinic; speech practice rooms equipped with tape recorders; and offices and reception room.

**SPEECH AND HEARING CLINIC.** The Speech and Hearing Clinic serves an extensive community and provides practical experience for students in speech therapy. By arrangement with the head of the Speech Department, audiometric testing and clinical assistance are available to students with speech and hearing defects. A fee is charged for clinical services.

*Major Requirement, Emphasis in Public Address:* 32 hours, of which 18 must be in the upper division. Required courses: 5 or 71, 62, 85, 86, 91, 142, 143, 173. A second major in a cognate field is strongly advised.

*Minor Requirement, Emphasis in Public Address:* 20 hours, 10 in the upper division. Required courses: 5 or 71, 85, 86.

*Major Requirement, Emphasis in Speech Therapy:* 30 hours, 18 of which must be in the upper division. Required courses: 5 or 71, 62, 91, 121, 173, 174, 176, 183, 184. The following from the Department of Education should be included in the curriculum: Psychology 5; Education 150, 170, 178.

*Minor Requirement, Emphasis in Speech Therapy:* 20 hours, including 5 or 71, 91, 121, 173, 174, 176. The following courses from the Department of Education should be included in the curriculum: Psychology 5; Education 170.

### GENERAL SPEECH

#### 5. FUNDAMENTALS OF SPEECH (3)

Practical training in oral communication of ideas to others, including vocabulary building; self-appraisal and the evaluation of the speech of others. Offered either semester.

#### 51. BROADCAST TECHNIQUES I (1)

Introduction to radio announcing, continuity writing and control room operations, including preparation for Radio Operator's License, Third Class. One lecture and two hours of practicum each week, with on-the-air experience on Station KNFP. Either semester.

#### 53. BROADCAST TECHNIQUES II (1)

Continuation of Course 51, with more intensive studio and control room study, and with preparation for Radio Operator's License, Second Class. One lecture and two hours of practicum each week. Either semester.

Prerequisite: 51 or permission of the department.

#### 62. ORAL INTERPRETATION (2)

Practice in oral reading of poetry and prose, with suggestions for public presentation in a unified and spontaneous response of voice and body.

#### 71. BEGINNING PUBLIC ADDRESS (2)

The basic principles of public address, with emphasis on more advanced forms than those presented in 5. Offered either semester. Prerequisite: English 1-2.

#### 81, 82. INDIVIDUAL INSTRUCTION (1, 1)

Private work with an instructor designed to improve general speech habits. Permission of the department head.

#### 85. BROADCASTING I (3)

Orientation to and evaluation of various aspects of radio and television, including history, social significance and principles of station operation; field trips to nearby commercial studios; opportunity for on-the-air work at KNFP. Two hours of class instruction and one three-hour laboratory each week.

#### 86. BROADCASTING II (3)

Continuation of the study of sociological relationships of broadcasting; practice in the preparation, production and broadcasting of various types of programs; religious broadcasting; participation in KNFP staff responsibilities; field trips to nearby radio and television stations. Two hours of class instruction and one three-hour laboratory each week. Prerequisite: Speech 85 or equivalent.

#### 91. VOICE AND DICTION (2)

A study and practice of the principles of correct use of the voice, articulation, the elimination of throat fatigue.

Prerequisite: 2 hours of speech or permission of the department.

## Speech

101. PROGRAM PLANNING AND PRODUCTION\* (3)  
A study of the philosophies, standards, methodologies, and techniques of planning and producing secular and sacred programs. Designed to meet the needs of future lay or professional leaders. Two hours of class instruction and three hours laboratory each week, planning and producing programs for on-campus and off-campus appointments.
111. PUBLIC PROCEDURE (2)  
The principles and practice of parliamentary law.
121. PHONETICS (2)  
The international phonetic alphabet and its application to speech correction and to adequate pronunciation.  
Prerequisite: 2 hours of speech.
137. RADIO — TV PRODUCTION\* (2)  
Production and direction of various types of radio and television broadcasts.  
Prerequisite: Speech 85 and 86 or equivalent.
142. PERSUASIVE SPEAKING (3)  
Practice in securing acceptance of ideas with logical and emotional appeals.  
Prerequisite: Speech 5 or 71 or equivalent.
143. PRINCIPLES OF DISCUSSION (3)  
Principles and practice of group investigation of problems with a view to their solution by means of mutual comparison and evaluation of pertinent ideas.
152. ADVANCED PUBLIC ADDRESS\* (3)  
Specialized forms of public address with development of maximum effectiveness in platform techniques. The course will include a study of classical and modern orators.  
Prerequisite: Speech 5 or 71.
- 195, 196. SPECIAL PROBLEMS (1, 1)  
Directed reading and research in speech problems.

### *Graduate courses:*

205. THE BASES OF SPEECH (3)  
The social, semantic, physiological, phonetic, neurological and psychological bases of speech.

## SPEECH THERAPY

Completion of the following courses qualifies the student to teach exceptional children in elementary and secondary schools (area of specialization; speech correction and lip reading in remedial classes). The work is offered only in connection with general teaching preparation: elementary, kindergarten-primary, junior high, secondary.

121. PHONETICS (2)  
(For description of course, see under General Speech.)
153. PRINCIPLES OF GUIDANCE (2)  
(See Education 153.)

170. THE EXCEPTIONAL CHILD (2)  
(See Psychology 170.)
173. BEGINNING SPEECH PATHOLOGY (3)  
Development of natural speech. Basic functional disorders of speech, and methods for their prevention and correction.
174. ADVANCED SPEECH PATHOLOGY (3)  
Etiology and treatment of organic speech disorders such as cleft palate, aphasia, and cerebral palsy.  
Prerequisite: Speech 173.
176. TEACHING OF LIP READING\* (2)  
Theory and methods of lip reading; practice in presenting exercises in basic procedures. Analytic and synthetic approaches. (Offered summers only.)  
Prerequisite: Speech 121.
183. CLINICAL METHODS IN SPEECH CORRECTION\* (2)  
Supervised observation of and counselling in methods of speech corrective work with school age children; construction of materials and equipment applicable to speech therapy.  
Prerequisites: Speech 173, 174.
184. CLINICAL PRACTICAL IN SPEECH CORRECTION\* (2)  
Correction of speech defects under supervision; training in taking case histories, coordinating related findings, and conferring with parents and teachers.  
Prerequisites: Speech 173, 174, 181.
185. HEARING CONSERVATION AND AUDIOMETRY\* (2)  
The nature of hearing and hearing loss; measurement and interpretation of reduced acuity; hearing conservation and education; auditory training and hearing aids. (Offered summers only.)
186. DIRECTED TEACHING IN SPEECH CORRECTION\* (4)  
(See Education 190.)

## *Graduate courses:*

208. COUNSELING THE SPEECH HANDICAPPED\* (2)  
Study, observation, and practice of counseling parents and teachers of children with speech handicaps.

## CURRICULUM FOR GENERAL SPEECH MAJOR

(Suggestive only)

	First Semester	Second Semester
<b>FRESHMAN YEAR</b>		
Fundamentals of Speech (Speech 5) . . . . .	3	
Freshman English (1-2) . . . . .	3	3
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
History of Western Civilization (History 52) . . . . .		3
General Psychology (5) . . . . .		3
Beginning Language . . . . .	3	3
(Not required of those who present two units of college entrance in the chosen language.)		
Applied Arts . . . . .	3	
Elective . . . . .	2	2
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

<b>SOPHOMORE YEAR</b>		
Fundamentals of Broadcasting (Speech 85-86) . . . . .	3	3
Voice and Diction (Speech 91) . . . . .	2	
Religion . . . . .	2	2
Oral Interpretation (Speech 62) . . . . .		2
General Education Basic Science (Science 63, 64) . . . . .	4	4
Intermediate Language . . . . .	3	3
Electives . . . . .	2	2
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

<b>JUNIOR YEAR</b>		
Public Procedure (Speech 111) . . . . .	3	
Persuasive Speaking (Speech 142) . . . . .		3
American History and Institutions (History 91, 92) . . . . .	3	3
Literature . . . . .	2	2
Health Principles (Health 59) . . . . .		2
General Education Fine Arts . . . . .	2	3
Beginning Speech Pathology (Speech 173) . . . . .		3
Speech or Cognate Electives . . . . .	6	
	16	16

<b>SENIOR YEAR</b>		
Religion . . . . .	2	2
Principles of Discussion (Speech 143) . . . . .	3	
Speech Electives . . . . .		3
Literature . . . . .	2	2
Cognate Electives . . . . .	9	9
	16	16

# CURRICULUM FOR SPEECH THERAPY MAJOR

(Suggestive only)

## FRESHMAN YEAR

	First Semester	Second Semester
Fundamentals of Speech (Speech 5)		3
Freshman English (1-2)	3	3
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 52)		3
Beginning Language (Not required of those who present two units of college entrance in the chosen language.)	3	3
General Psychology (5)	3	
General Education Fine Arts (57)	3	
Physical Education (7, 8)	$\frac{1}{2}$	$\frac{1}{2}$
Electives	2	2
	16½	16½

## SOPHOMORE YEAR

Voice and Diction (Speech 91)	2	
Oral Interpretation (Speech 62)		2
Religion (51, 52 or 71, 72)	2	2
General Education Basic Science (63, 64)	4	4
Intermediate Language	3	3
Health Principles (59)	2	
Applied Arts		3
Electives	3	2
Physical Education (55, 56)	$\frac{1}{2}$	$\frac{1}{2}$
	16½	16½

## JUNIOR YEAR

Beginning Speech Pathology (Speech 173)	3	
Advanced Speech Pathology (Speech 174)		3
American History and Institutions (History 91, 92)	3	3
The Exceptional Child (Psychology 170)	2	
Principles of Guidance (Education 153)		2
Literature	2	2
Hearing Conservation and Audiometry (Speech 185)	2	
Lip Reading (Speech 176)		2
Phonetics (Speech 121)	2	
Electives	2	4
	16	16

## SENIOR YEAR

Clinical Methods in Speech Correction (Speech 183)	2	
Clinical Methods in Speech Correction (Speech 184)		2
Directed Teaching in Speech Correction (Speech 186)	2	2
Language (143-144)	1	1
Religion	2	2
Abnormal Psychology (Psychology 178)		3
Electives (including Speech)	9	6
	16	16

# Theology

## THEOLOGY, RELIGION, AND COGNATE STUDIES

WALTER F. SPECHT, *Chairman*

WILBER ALEXANDER, FRITZ GUY, J. CECIL HAUSSLER,  
ROYAL SAGE

The objectives of this department are these: to foster in students a sense of personal responsibility to God; to lead them into a clear understanding and appreciation of the fundamental doctrines of the church and to an articulate expression of Christian faith; to develop in students ability and spiritual techniques for participation in the organized work of the church, either as official workers or as laymen; to train them to participate in the building of a Christian community, to meet the spiritual, moral, social, and physical needs of men and women everywhere, and to carry the gospel to all the world; to ensure a sound basis for graduate study.

*Theology Major Requirements:* 42 hours,\* of which a minimum of 20 must be in the upper division. Information concerning required courses, cognates, and the fifth year at the Seminary is given in the Special Curriculums section of this Bulletin. All those desiring recommendation for ministerial internships must major in Theology.

\*Those who elect to combine a Biblical Languages major with a Theology major shall be exempted from that 6 hours of the Theology major required in Religion 161, 162, in view of the required equivalent in the Biblical Languages major, 145, 146. Thus for such candidates the Theology major requirement is 36 hours.

*Religion Major Requirements:* 30 hours, of which a minimum of 18 hours must be in the upper division. Required courses: Religion 71 or 105; 72 or 106; 151, 152; 56 or 115; 109 or 110; 138, 141 or 142; 161 and 162. A maximum of 4 hours in applied theology and 6 hours in religious history will be counted towards a major. Recommended electives: Any courses offered in Theology, Religion and cognate studies; Biology 181; History 103, 104; Education 101 and Psychology 107; English 160 and 170; Speech 142, 143; Secretarial Science 3 or 9; Music 60, 113, 114.

*Religion Minor Requirements:* 18 hours, including the basic requirements in religion, and Religion 56 or 115. A minimum of 9 hours must be in the upper division. A maximum of 4 hours in applied theology or religious history may apply.

**HONORS STUDIES IN RELIGION.** Consult Studies for Honors, for a description of the Honors Program at La Sierra College. Honors credit in Religion to the extent of 1 or 2 semester hours is available in each of these courses: 105-H, 106-H, 109-H, 110-H, 115-H, 161-H, 162-H, 171-H, 172-H.

## RELIGION

### 1, 2. LIFE AND TEACHINGS OF JESUS (2, 2)

A study of the teaching principles, methods of labor, and analysis of the teachings and miracles of Jesus with their application to present-day conditions and needs.

### 3, 4. FOUNDATIONS OF CHRISTIANITY (2, 2)

A basic introduction to the fundamental concepts of religious faith and practice, including a study of the purpose and nature of the Bible; the development of the redemption theme in the several books of Scripture, and aims, methods, and tools of Bible study. Offered for students with less than two units of secondary credit in religion, and for others by advisement.

### 56. SPIRIT OF PROPHECY (2)

A creative study of the prophetic gift in its operation in the church, and the relation of its truths, principles, and standards to life problems. For non-theology students only. Credit not allowed for this course and 115.

### 57, 58. INTRODUCTION TO THEOLOGY (2, 2)

Introduction to the general field of theological thought—its purpose, scope, and methods. Systematic investigation is made of the doctrines of the church. Open to theology majors only. Credit not allowed for this course and 151, 152.

### 59, 60. OLD TESTAMENT LIFE AND TEACHINGS (2, 2)

An approach to the Old Testament: its historical framework, its developing revelation of God and His redemptive plan, the great ideas in its individual books, its relation to Jesus and the New Testament, and its relevance today to the individual life and to the Christian fellowship. This course or 71, 72 will fulfill the sophomore requirement in Religion.

### 71. PROPHETIC INTERPRETATIONS I (2)

The historical and prophetic study of the book of Daniel, tracing the rise and fall of world empires until the final establishment of God's kingdom on earth, with special emphasis on the atonement, judgment, and return of our Lord. Credit not allowed for this course and 105.

### 72. PROPHETIC INTERPRETATION II (2)

A study of the Revelation in which the whole Bible is gathered together and made to focus on Jesus Christ, His church being seen in its conflict with the forces of evil and apostasy through the ages and in its ultimate triumph. Credit not allowed for this course and 106.

### 105. DANIEL (2)

An advanced study of Daniel, the objections of and answers to the critics of the Book of Daniel, and particular emphasis and detailed study of the prophetic parts of Daniel. Credit not allowed for this course and 71.

### 106. REVELATION (3)

An advanced study, particularly applicable to those who are looking forward to the ministry, with emphasis upon eschatology. Credit not allowed for this course and 72 or 132.

## Theology

### 109, 110. OLD TESTAMENT PROPHETS (3, 3)

An analytical and exegetical study of the Hebrew prophets with careful attention to their historical setting and with special consideration of the eternal principles and practical values of their messages for today. (First semester: Prophets of the eighth century B.C.; second semester: Prophets of Judah, the exile, and the Restoration.)

### 115. GIFT OF PROPHECY (3)

A course dealing with the Gift of Prophecy in its relation to the origin and progress of the church and its work from its inception to the present time. Credit not allowed for this course and 56.

### 132. ESCHATOLOGY (2)

The intensive study and chronological organization of the closing events as presented in the Spirit of Prophecy. Credit not allowed for this course and 106.

### 151, 152. BIBLICAL THEOLOGY (2, 2)

A study of fundamental Bible doctrines, particularly the five pillars of Adventist faith, and their relation to the great controversy and personal salvation. Credit not allowed for this course and 57, 58.

### 161, 162. NEW TESTAMENT EPISTLES (3,3)

An exegetical study of the Pauline Epistles. The object is to train the student in correct analysis and interpretation of Scripture, with special emphasis on the great truths, historical background, and theological concepts.

### 171, 172. PHILOSOPHY OF RELIGION (2, 2)

(See philosophy section for description.)

## APPLIED THEOLOGY

### 127, 128. HOMILETICS (3, 3)

An introduction to the history, science, and art of preaching. Discussion of the origin, structure, content, and composition of various types of sermons. Application is made of the analytical and synthetical Bible study methods for preaching. Exercises in sermon outlines, elaboration, and delivery, with criticism. One hour laboratory, and field work in surrounding churches. The first semester or equivalent is prerequisite to the second.

### 137. PRINCIPLES OF EVANGELISM (2)

A survey of the basic principles involved in conducting public evangelistic meetings. Special consideration is given to principles which relate to securing personal decisions for Christ and the church. Scheduled projects in field work will be assigned; and where possible, experience will be given in conducting a series of evangelistic meetings. Prerequisites: Religion 57, 58, 127.

### 138. CHURCH POLITY AND LEADERSHIP (2)

A basic course for the consideration of the functions common to all types and fields of religious leadership. Consideration is given to the leadership of the basic units and organizations of the church; also the course treats of congregation, denomination, and community relationships. Evangelistic emphasis is stressed in all practical helps and projects given. Not open to theology students.

## 199. SERMON SEMINAR (2)

A depth study of the functional elements of the expository sermon. Resources of the Old and New Testament are studied as basic materials for sermon preparation.  
Prerequisite: Religion 127, 128.

## RELIGIOUS HISTORY

### 101. BIBLICAL ARCHAEOLOGY\* (2)

A study of the technique of archaeology and its methods, and a survey of the excavations and discoveries in Bible lands with a view to making clear the setting of many of the incidents of the Bible; to provide additional light on and confirmation of the word of God.

### 118. MISSIONS AND MISSION PROBLEMS (3)

A study of world missions in prophecy and history. Special stress is given to the problems, methods, and policies of mission work under present-day conditions.

### 134. MANUSCRIPTS OF THE BIBLE\* (2)

A course showing God's particular care in preserving manuscripts and versions of the Bible. The formation of the canons of the Old and New Testaments, translations, and revisions of the Bible constitute the chief fields of study in this course.

### 141, 142. HISTORY OF THE CHRISTIAN CHURCH (3, 3)

The development of the Christian church with emphasis upon the story of the true church, the rise and development of the Papacy, the Protestant Reformation, with the subsequent break-up of Protestantism, and the origin of modern denominations.

## PHILOSOPHY

### 81-82. INTRODUCTION TO PHILOSOPHY (2-2)

The nature, purpose, methods, and values of philosophical inquiry. An analysis of the major philosophical problems and an evaluation of the solutions offered by philosophers in all ages.

### 171, 172. PHILOSOPHY OF RELIGION (2, 2)

An examination of the history and development of religious philosophy with particular emphasis upon Christian philosophy and an evaluation of it. An examination of the Christian concepts of God, creation, nature of man, salvation, and immortality. The first semester is prerequisite to the second.

### 197. AESTHETICS (2)

A study of the principles of aesthetics and the aesthetic experience involved in the creation and understanding of the various arts.  
(See Music 197.)

## CURRICULUM FOR RELIGION MAJOR

(Suggestive only)

### FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2) . . . . .	2	2
Freshman English (English 1-2) . . . . .	3	3
Beginning Language . . . . .	3	3
(Not required if the student has two entrance units in one foreign language and aims to continue the same language in college.)		
History . . . . .	3	3
Elective . . . . .		2
Health Principles (Health 59) . . . . .	2	
General Psychology (Education 5) . . . . .	3	
Speech . . . . .		3
Physical Education (7, 8) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

### SOPHOMORE YEAR

Religion (59, 60 or 71, 72) . . . . .	2	2
Intermediate Language . . . . .	3	3
General Education Basic Science (Science 63, 64) . . . . .	4	4
History . . . . .	3	3
Applied Arts . . . . .	3	
Electives . . . . .		3
Physical Education (55, 56) . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

### JUNIOR YEAR

New Testament Epistles (Religion 161, 162) . . . . .	3	3
Gift of Prophecy (Religion 115) . . . . .	3	
Literature . . . . .		3
Fine Arts . . . . .	3	
Electives . . . . .	7	10
	16	16

### SENIOR YEAR

History of the Christian Church (Religious History 141 or 142) . . . . .	3	
Old Testament Prophets (Religion 109 or 110) . . . . .		3
Daniel and Revelation (Religion 105, 106) or Biblical Theology (Religion 151, 152) . . . . .	2	2-3
Church Polity and Leadership . . . . .		2
Electives in Major Concentration . . . . .	2	
Electives . . . . .	9	8-9
	16	16

## CURRICULUM FOR THEOLOGY MAJOR

(Suggestive only)

## FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Beginning New Testament Greek (Biblical Language 7-8)	3	3
Freshman English (1-2)	3	3
General Psychology (Education 5)		3
Health Principles (Health 59)	2	
History	3	
Social Science or Education		3
Speech	3	
Elective		2
Physical Education (7, 8)	$\frac{1}{2}$	$\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$

## SOPHOMORE YEAR

Introduction to Theology (Religion 57, 58)	2	2
Intermediate New Testament Greek (Biblical Languages 65-66)	3	3
Social Science or Education		3
History	3	3
General Education Basic Science (Science 63, 64)	4	4
Physical Education (55, 56)	$\frac{1}{2}$	$\frac{1}{2}$
Applied Arts	3	
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

## JUNIOR YEAR

Homiletics (Applied Theology 127, 128)	3	3
New Testament Epistles (Religion 161, 162)	3	3
History of the Christian Church (Religious History 141, 142)	3	3
Gift of Prophecy (Religion 115)	3	
Advanced Greek	2	or 2
Electives		1-3
Literature	2	or 2
History of Church Music (Music 113, 114)	2	2
	16	16

## SENIOR YEAR

Old Testament Prophets (Religion 109, 110)	3	3
Daniel and Revelation (Religion 105, 106)	2	3
Philosophy of Religion (Philosophy 171, 172)	2	2
Principles of Evangelism (Applied Theology 137)	2	
Literature		2
Speech	3	
Electives	4	6
	16	16

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(Dean, School of Nursing, College of Medical Evangelists)  
B.S., Pacific Union College; M.S., University of Southern California.
- PERRY BEACH, Ph.D. *Professor of Piano and Theory*  
B.S., University of Nebraska; M.A. and Ph.D., Eastman School of Music. *La Sierra College, 1957-*
- L. W. BOTIMER, Ph.D. *Professor of Chemistry*  
A.B., Emmanuel Missionary College; M.S., University of Maryland; Ph.D., University of Maryland. *La Sierra College, 1960-*
- STANLEY BULL, Ph.D. *Professor of Education and Psychology*  
B.A., American University of Cairo (Egypt); M.A., University of Edinburgh (Scotland); Ph.D., University of Michigan. *La Sierra College, 1960-*
- LESTER H. CUSHMAN, M.S. *Professor of Mathematics*  
B.A., Pacific Union College; M.S., University of Southern California.  
*La Sierra College, 1930-*
- LLOYD E. DOWNS, Ph.D. *Professor of Biology*  
B.A., Pacific Union College; M.A., Pacific Union College; Ph.D., University of Southern California. *La Sierra College, 1944-*
- HAROLD B. HANNUM, M.Mus. *Professor of Organ and Theory*  
B.A., Washington Missionary College; Teacher's Certificate (piano), Peabody Conservatory; Associate of the American Guild of Organists; M.Mus., Northwestern University. *La Sierra College, 1944-*
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*La Sierra College, 1948-*
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B.A., Emmanuel Missionary College; M.A., University of Southern California; Ph.D., Western Reserve University; graduate work, Universidad Nacional de Mexico; La Sorbonne. *La Sierra College, 1938-*
- MAYBEL JENSEN, M.A. *Professor of Elementary Teacher Education*  
B.A., Union College; M.A., University of Southern California. *La Sierra College, 1925-*
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B.A., Madison College; M.S., University of Tennessee. *La Sierra College, 1948-*
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B.A., Walla Walla College; M.A., Washington State College; Ph.D., University of Colorado. *La Sierra College, 1948-*

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B.A., Union College; M.A., University of Southern California; Ph.D., California Institute of Technology. *La Sierra College*, 1952-
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B.A., Atlantic Union College; M.A., Boston University; graduate work, University of Southern California; Certified Professional Secretary. *La Sierra College*, 1944-
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\* On leave, 1961-1962.

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- EDNA S. FARNSWORTH, M.Mus *Associate Professor of Piano*  
B.F.A. in Music, Nebraska Wesleyan University; M.Mus., Redlands  
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HILMER W. BESEL, M.A. *Assistant Professor of Mathematics*  
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\*LEE A. DAVIS, M.S. *Assistant Professor of Agriculture*  
B.S., Emmanuel Missionary College; M.S., Washington State College; graduate work, Ohio State University. *La Sierra College*, 1958-

\*DONALD DICK, M.A. *Assistant Professor of Speech*  
B.A., Union College; M.A., University of Nebraska. *La Sierra College*, 1957-

HERALD A. HABENICHT, M.A. *Assistant Professor of Agriculture*  
B.S., Emmanuel Missionary College; M.A., University of Michigan. *La Sierra College*, 1955-

HOPE H. HAYTON, B.S. in L.S., Ph.D. *Assistant Professor of French*  
A.B., Pacific Union College; M.A., B.S. in L.S., and Ph.D., University of Southern California. *La Sierra College*, 1946-

ROBERT HERVIG, M.B.A. *Assistant Professor of Business Administration*  
B.A., Emmanuel Missionary College; M.B.A., Northwestern University. *La Sierra College*, 1941-43, 1957-

G. A. HOUCK, M.S. *Assistant Professor of Agriculture*  
B.S., Emmanuel Missionary College; M.S., Michigan State College. *La Sierra College*, 1956-

DONALD LEE, Ph. D. *Assistant Professor of Science Education and Physics*  
B.A., Emmanuel Missionary College; M.A., Ohio State University; Ph.D., New York University. *La Sierra College*, 1959-

\*On leave, 1961-1962.

## The Faculty

KALJO MAGI, M.A. *Assistant Professor of Modern Languages*  
B.A., Atlantic Union College; Cand. Phil., University of Uppsala;  
M.A., New York University; graduate work, New York University.  
*La Sierra College, 1958-*

HAROLD R. MILLIKEN, M.A. *Assistant Professor of Biology*  
B.A., Atlantic Union College; M.A., University of Virginia. *La Sierra College, 1961-*

✓ GRACE PRENTICE, M.S. *Assistant Professor of Library Science*  
B.A., Walla Walla College; M.S., University of Illinois. *La Sierra College, 1959-*

\* ROYAL SAGE, M.A., B.D. *Assistant Professor of Biblical Languages*  
B.A., *La Sierra College*; M.A. and B.D., Seventh-day Adventist  
Theological Seminary. *La Sierra College, 1956-*

YVONNE PASHER SONNELAND, M.H.E. *Assistant Professor of Home Economics*  
B.S., *La Sierra College*; M.H.E., Oregon State College. *La Sierra College, 1952-*

M. J. SORENSON, Ph.D. *Assistant Professor of Religion*  
B.A., Union College; M.A. and Ph.D., University of Nebraska; graduate  
work, Seventh-day Adventist Theological Seminary. *La Sierra College, 1959-*

\* E. A. WIDMER, M.A. *Assistant Professor of Biology*  
B.A., Union College; M.A., University of Colorado. *La Sierra College, 1953-*

## INSTRUCTORS

MOSES A. CHALMERS, B.M.E. *Instructor in Voice*  
B.M.E., *La Sierra College*; graduate work, University of Southern  
California. *La Sierra College, 1960-*

FRITZ GUY, M.A. *Instructor in Religion*  
B.A., *La Sierra College*; M.A., Seventh-day Adventist Theological  
Seminary; graduate work, Andrews University. *La Sierra College, 1961-*

BARBARA REEL HARSANY, B.S. *Instructor in Physical Education*  
B.S., Walla Walla College. *La Sierra College, 1959-*

HERSCHEL HUGHES *Instructor in Art*  
Pacific Union College. *La Sierra College, 1961-*

JANET JACOBS, B.A. *Instructor in Education*  
B.A., Union College; graduate work, University of Illinois and  
Claremont Graduate School. *La Sierra College, 1958-*

RICHARD C. LARSON, M.S. *Instructor in Business Administration*  
B.S., *La Sierra College*; M.S., and additional graduate work, Michigan  
State University. *La Sierra College, 1959-*

JERRY LIEN, M.A. *Instructor in Speech*  
B.A., Union College; M.A., Andrews University. *La Sierra College, 1960-*

✓ ELWOOD MABLEY, M.S. in L.S. *Instructor in Library Science*  
B.A., Walla Walla College; M.S. in L.S., University of Southern  
California. *La Sierra College, 1956-*

## The Faculty

EUGENE NASH, B.A. *Instructor in Band Instruments*  
B.A., La Sierra College; graduate work, University of Southern California. *La Sierra College*, 1957-

MARILYN TEELE, B.A. *Instructor in Education*  
B.A., Atlantic Union College; graduate work, Boston University.  
*La Sierra College*, 1961-

### GRADUATE ASSISTANTS

A. LONNIE HENRICHSEN, B.A. *Graduate Assistant in Speech*  
B.A., La Sierra College.

ROBERT H. ILES, B.A. *Graduate Assistant in Speech*  
B.A., La Sierra College.

### LA SIERRA ACADEMY AND ELEMENTARY SCHOOL

WILLIAM G. NELSON, M.A. *Principal*  
B.A., Union College; graduate work, University of Colorado and University of Denver. *La Sierra College*, 1958-

### ACADEMY

D. CECIL BARR, M.Ed. *Vocational Counselor*  
B.A., Wichita University; M.Ed., Texas Christian University; graduate work, University of California at Los Angeles and Claremont College.  
*La Sierra College*, 1949-

REUBEN HILDE, M.A. *Supervising Teacher in Religion*  
B.A., La Sierra College; M.A., Seventh-day Adventist Theological Seminary. *La Sierra College*, 1959-

MADALYN LATHROP, B.A. *Supervising Teacher in Home Arts*  
B.A., Walla Walla College. *La Sierra College*, 1958-

CORA LUGENBEAL, B.A. *Supervising Teacher in English*  
B.A., Emmanuel Missionary College; graduate work, University of Southern California and Redlands University. *La Sierra College*, 1959-

WARREN MINDER, B.A. *Supervising Teacher in Biology*  
B.A., La Sierra College. *La Sierra College*, 1959-

FRANK V. NOVELLO, M.A. *Supervising Teacher in Bible and History*  
B.A., Atlantic Union College; M.A., Seventh-day Adventist Theological Seminary. *La Sierra College*, 1957-

NELLIE PHILLIPS, M.Bus.Ed. *Supervising Teacher in Business Education*  
B.A., Union College; M.Bus.Ed., University of Colorado. *La Sierra College*, 1947-

CHANNELL A. ROCKWELL, B. A. *Accountant*  
B.A., La Sierra College. *La Sierra College*, 1956-

VERNON L. SCHEFFEL, B.S. *Supervising Teacher in Physical Education*  
B.S., La Sierra College. *La Sierra College*, 1960-

CARL W. SPECHT, M.A. *Supervising Teacher Science and Mathematics*  
B.A., Union College; M.A., University of Colorado and Colorado State Teachers College. *La Sierra College* 1959-

ROBERT WARNER, M.Mus. *Supervising Teacher in Band*  
B.A., Iowa State Teachers College; M.Mus., Northwestern University.  
*La Sierra College*, 1952-

## The Faculty

### ELEMENTARY SCHOOL

- GEORGE CARPENTER, M.Ed. *Principal, Elementary School*  
B.A., Union College; M.Ed., Texas Wesleyan College. *La Sierra College, 1960-*
- CLIFFORD ACKERMAN, B.A. *Supervising Teacher, Grades 5 and 6*  
B.A., Walla Walla College; graduate work, Redlands University, Long Beach State College. *La Sierra College, 1956-*
- ROSA LEE BECKER, B.A. *Supervising Teach in History and Bible*  
B.A., Union College. *La Sierra College, 1961-*
- MYRA CAO, B.A. *Supervising Teacher, Grade 6*  
B.A., La Sierra College. *La Sierra College, 1960-*
- RUTH COBLE, B.S. *Supervising Teacher, Grade 3*  
B.S., La Sierra College. *La Sierra College, 1954-*
- KATHRYN A. HABENICHT, B.A. *Supervising Teacher, Grade 5*  
B.A., Emmanuel Missionary College; graduate work, University of California at Riverside. *La Sierra College, 1957-*
- MAUDE PEARSON *Supervising Teacher, Grade 6*  
Emmanuel Missionary College, University of California at Riverside, La Sierra College. *La Sierra College, 1957-*
- ROLAND W. RHYNUS, M.A. *Supervising Teacher, Grade 8*  
B.A., Atlantic Union College; M.A., New York University. *La Sierra College, 1959-*
- MARGARET SACKETT, B.S. *Supervising Teacher, Multigrade Room*  
B.S., Pacific Union College. *La Sierra College, 1961-*
- HELEN R. SWENSON, B.S. *Supervising Teacher, Grade 4*  
B.S., University of Denver; graduate work, Claremont College, Redlands University, Long Beach State College. *La Sierra College, 1948-*
- MILTON THORMAN *Supervising Teacher, Grade 7*  
Walla Walla College. *La Sierra College, 1960-*
- GENEVIEVE TOMLINSON, B.A. *Supervising Teacher, Grade 1*  
B.A., Walla Walla College; graduate work, Long Beach State College. *La Sierra College, 1954-*
- STELLA WESTERMEYER, B.A. *Supervising Teacher, Grade 8*  
B.A., Walla Walla College. *La Sierra College, 1961-*
- MARY WOODWARD, B.A. *Supervising Teacher, Grade 2*  
B.A., Pacific Union College; graduate work, University of Southern California, University of Nebraska. *La Sierra College, 1947-*

# GRADUATES OF 1960

## BACHELOR OF ARTS

Gerald Robert Anderson  
 Antonio Arteaga  
 Chong Hyun Baick  
 Bonnie D. Baird  
 J. Terry Bates  
 Richard Lewis Bates  
 Paula Lee Becker  
 Richard LeRoy Bobst  
 Donald Bruce Brown  
 Robert N. Brown, Jr.  
 Emma Lou Bryant  
 Del Williams Case  
 Wilson Maynard Cole  
 Morten Jerry Davis  
 Lawrence Allen Eldridge  
 Nancy Ruth Everett  
 Elizabeth Ann Fitchjian  
 Oscar Pinto Da Fonseca  
 Robert Paul Freed  
 William Marvin Gaskill  
 Andrew Louis Guzman  
 Byron Leon Hallsted  
 Elmer Albertus Hankins III  
 Judith Ann Hansen  
 Evelyn Hardy  
 Arthur Leon Henrichsen  
 Barbara Helen Heidenreich  
 Charley Hinton  
 Henry Arthur Hockley  
 James Wesley Hoover, Jr.  
 William Harvey Hubbs  
 Clyde Masayuki Ikuta  
 Robert Harold Iles  
 Shirley Arlene Jennings  
 Ann Marie Joergenson

Marie Foster Johansen  
 Charles Loren Johnson  
 Jack Wallace Johnson  
 Samuel Jones Johnson, Jr.  
 Morvel Lloyd Klause  
 Gail Harriet Knight  
 Clare K. Kwan  
 John Richard LaGourgue  
 Pearl M. Lansing  
 Robert James Latta  
 Leslie Harold Lee  
 Darrell Don Miller  
 Bruce Eldine Morton  
 Svein Lorents Myklebust  
 Shoichi Nakamura  
 Claudio Braun Rabello  
 Lois May Ramey  
 Eleanor Ann Randall  
 Samuel Kenneth Reeder  
 Robert Wilson Rice  
 Carol Jeanne Salas  
 Loren Irville Senseman  
 Joseph Alvin Eric Shannon  
 John Bernard Slayback  
 Earnest Eugene Smith  
 Gordon Grant Smith  
 Charles Everett Spier  
 Patricia Hoxie Tallman  
 Stanley Shigeo Tamashiro  
 Noel H. Thorpe  
 Albert Cornelius Tilstra  
 Nelson Melvin Turner  
 John L. VanDenburgh  
 Helen Irene Weismeyer

## BACHELOR OF SCIENCE

Evangeline Naomi Allen  
 Geraldine Rippetoe Andelson  
 Benjamin Frank Anderson  
 Grace Akiko Arakaki  
 Heather Marie Boyd  
 Emily Goltermann Brueske  
 Charles Don Clay  
 Ruth Mildred Coble  
 George W. Cummings  
 Ruby King Daily  
 Grace Anderson Farag  
 Wilma Rouse Gromer  
 F. Elizabeth Evers Fisher  
 Donald Edward Habenicht  
 Raymond Donald Hamlin  
 Viola Ruth Hardin  
 Edmund Lee Johnston  
 Grace E. Joiner  
 Grayce Yvonne Jones  
 Mabel J. Kortsch

Audrey Christiana Lee  
 Elta LaVene LeMaster  
 Janet Gillespie Mallery  
 Virginia Lorraine McGee  
 Betty Lou Mertz  
 Robert Forrest Miller  
 James D. Moore  
 Dolly Ann Morrison  
 Frances Yukie Nakamoto  
 Erma Arlene Olson  
 Robert Lee Rawson  
 Shirley Dunbar Rusche  
 Ethel Eujeanne Russell  
 Wayne Kazuhide Shiroma  
 Linda Lee Seanson  
 Reiko Angelo Kai Tamura  
 Enid Elise Thorson  
 Norman LaVern Vance  
 Carmen Elaine Way

## BACHELOR OF MUSIC EDUCATION

Curtis Hodson Carr, Jr.  
 Ann Page Maxwell  
 Helen Irene Reynolds

Donald Jon Vaughn  
 Orville Williams

## Enrollment Analysis

### ENROLLMENT ANALYSIS, 1960 - 1961

Regular Semesters:	Men	Women	Total
Freshmen	229	182	411
Sophomores	107	83	190
Juniors	149	79	228
Seniors	54	31	85
Graduates and Postgraduates	32	18	50
Special	3	10	13
Extension	105	118	223
	<u>679</u>	<u>521</u>	<u>1200</u>

Summer Session, 1960:	Men	Women	Total
Freshmen	16	10	26
Sophomores	17	15	32
Juniors	43	41	84
Seniors	36	26	62
Graduates and Postgraduates	29	20	49
Special	16	18	34
	<u>157</u>	<u>130</u>	<u>287</u>

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is so, in what professional program will you enroll? ..... (A student seeking entrance at the graduate level must also apply for graduate standing.)

Do you plan to qualify for a teaching credential? ..... Yes ..... No ..... Secondary ..... Elementary ..... Other .....

List in order of dates of attendance all secondary schools, junior colleges, colleges or other institutions you have attended. If you were out of school for any period indicate activities during that period. (These data must be complete from start of high school and until the present time.)

Name and location of school

Degree Earned

Date of Attendance

Reason for Leaving

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

**LA SIERRA COLLEGE**  
**APPLICATION FORM**

The applicant will complete this form in ink and forward it to the Admissions Office, La Sierra College, Arlington, California. An application fee of \$5 (not required of a former student) and a small photograph must be included before this application can be presented to the Admissions Committee.

**APPLICANT**

Name .....  
Last Name ..... Mr., Mrs., or Miss ..... First Name ..... Middle Name ..... Maiden Name ..... Husband's First Name .....

Address .....  
Number and Street ..... City and Zone ..... State and Nation ..... Telephone Number .....

Single..... Married..... Separated..... Divorced..... Widowed ..... Number of dependents .....

Birthplace .....  
City ..... State and Country ..... Date of Birth ..... Month ..... Day ..... Year .....

Citizenship ..... If not American citizen, type of visa? .....

Church Preference ..... Name and location of church holding your membership .....

.....  
Name of Church ..... Address .....

Do you plan on bringing or having available for use an automobile while at LSC? ..... (Note: Freshmen are not permitted this privilege)

Will you live in one of the college residence halls? ..... If not, with whom will you live? .....

.....  
Name ..... Address ..... Telephone Number .....

(Single students whose homes are not in the La Sierra vicinity are expected to live in the college dormitories. Exceptions may be granted, in unusual circumstances, on petition to the Office of the Dean of Students.)

**ACADEMIC INFORMATION**

When do you plan to attend La Sierra College?.....  
Year ..... Fall Semester ..... Spring Semester ..... Summer .....

Do you plan to become a candidate for a degree? .....  
Yes ..... No ..... Bachelor's Degree ..... Master's Degree .....

If so, in what field will you major? .....  
If not, in what professional program will you enroll? .....  
(A student seeking entrance at the graduate level must also apply for graduate standing.)

Do you plan to qualify for a teaching credential? .....  
Yes ..... No ..... Secondary ..... Elementary ..... Other .....

List in order of dates of attendance all secondary schools, junior colleges, colleges or other institutions you have attended. If you were out of school for any period indicate activities during that period. (These data must be complete from start of high school and until the present time.)

Name and location of school ..... Degree Earned ..... Date of Attendance ..... Reason for Leaving .....

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name

Address

City

State

Name three persons, not related to you, who can give statements as to your qualifications for college work. (These references should be names of responsible business persons, teachers, ministers, or professional people who know you.)

1. \_\_\_\_\_  
Name \_\_\_\_\_ Occupation \_\_\_\_\_

\_\_\_\_\_

Number and Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

2. \_\_\_\_\_  
Name \_\_\_\_\_ Occupation \_\_\_\_\_

\_\_\_\_\_

Number and Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

3. \_\_\_\_\_  
Name \_\_\_\_\_ Occupation \_\_\_\_\_

\_\_\_\_\_

Number and Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Do you consider your general health      Excellent ..... Fair ..... Height ..... Weight .....

   Good ..... Poor .....          

Do you have any physical handicaps? ..... If so, give nature of such handicap .....

Father's name in full .....		Mother's name in full .....	
Place of Birth .....		Place of Birth .....	
Nationality .....		Nationality .....	
Occupation .....		Occupation .....	
Legal guardian, if other than your father .....			
Permanent address of parent or guardian .....			
Street and Number		City and Zone	
State		State	

Do you have an unpaid school account? ..... If so, how much? ..... Where? .....

Are you responsible for your own school account? ..... If not, give name and address of parent or guardian who will be responsible for the payment of your account .....

.....

What amount will you need to earn by work to be provided by the college? \$.....

How much cash will you have over and above the guarantee deposit to apply on your school expenses (1) at the time of registration \$.....

(2) monthly thereafter \$.....

Date of application

# LA SIERRA COLLEGE APPLICATION FORM

The applicant will complete this form in ink and forward it to the Admissions Office, La Sierra College, Arlington, California. An application fee of \$5 (not required of a former student) and a small photograph must be included before this application can be presented to the Admissions Committee.

## APPLICANT

Name .....	Last Name	Mr., Mrs., or Miss	First Name	Middle Name	Maiden Name	Husband's First Name
Address .....	Number and Street		City and Zone	State and Nation		Telephone Number
Single.....	Married.....	Separated.....	Divorced.....	Widowed.....	Number of dependents .....	
Birthplace .....	City	State and Country	Date of Birth .....	Month	Day	Year
Citizenship .....	If not American citizen, type of visa? .....					
Church Preference .....	Name and location of church holding your membership .....					
Name of Church			Address			

Do you plan on bringing or having available for use an automobile while at LSC? ..... (Note: Freshmen are not permitted this privilege)

Will you live in one of the college residence halls? ..... If not, with whom will you live? .....

Name	Address	Telephone Number
------	---------	------------------

(Single students whose homes are not in the La Sierra vicinity are expected to live in the college dormitories. Exceptions may be granted, in unusual circumstances, on petition to the Office of the Dean of Students.)

## ACADEMIC INFORMATION

When do you plan to attend La Sierra College?.....

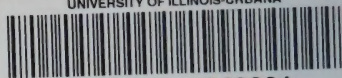
Year	Fall Semester	Spring Semester	Summer
------	---------------	-----------------	--------

Do you plan to become a candidate for a degree? .....

Yes	No	Bachelor's Degree	Master's Degree
-----	----	-------------------	-----------------



UNIVERSITY OF ILLINOIS-URBANA



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